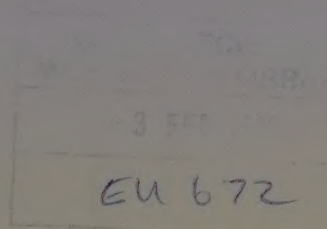


1999

VOLUME 20

Biocontrol

News and Information



ANNUAL INDEX

Includes list of source journals



CABI *Publishing*

A division of CAB International

ISSN 0143-1404

Biocontrol News and Information

Volume 20, 1999

ISSN: 0143-1404

**Published quarterly
and available through PEST CABWeb at <http://pest.cabweb.org>**

Editorial Team

Editor-in-Chief

Dr Jeff Waage
Director, Biological Pest Management
CABI Bioscience
Silwood Park, Buckhurst Road
Ascot, Berkshire SL5 7TA, UK
Fax: + 44 (0) 1344 875007
Email: BNi@cabi.org

Assistant Editor

Rebecca Murphy
Biological Pest Management
CABI Bioscience
Silwood Park, Buckhurst Road
Ascot, Berkshire SL5 7TA, UK
Fax: + 44 (0) 1344 875007
Email: BNi@cabi.org

Abstracts Editor

Bettina Carter
CAB International
Wallingford
Oxon OX10 8DE, UK
Email: b.carter@cabi.org

Assistant Abstracts Editor

Dr Emma D.L. Brooks
CAB International
Wallingford
Oxon OX10 8DE, UK
Email: e.brooks@cabi.org

Editorial Advisory Board

F. Bigler (Zürich, Switzerland)
R.D. Cave (Tegucigalpa, Honduras)
E.S. Delfosse (Beltsville, MD, USA)
E. De Nardo (Rodovia, Jaguariúna, Brazil)
D.J. Greathead (Ascot, UK)
M. Guillon (Nogüères, France)
R.L. Hill (Christchurch, New Zealand)
D. Moore (Ascot, UK)

P. Neuenschwander (Cotonou, Benin)
B. Nyambo (Nairobi, Kenya)
P.A.C. Ooi (Jakarta, Indonesia)
S.P. Singh (Bangalore, India)
R. Wang (Beijing, China)
A.K. Watson (Québec, Canada)
P. Wilkinson (Harare, Zimbabwe)

Aims and Scope

Biocontrol News and Information is a news, reviews, commentary and abstract journal designed to keep its international readership quickly and fully informed of current developments in biocontrol. The journal covers all aspects of the use of living organisms to control pest animals, weeds and plant diseases. All biocontrol methods are addressed, including the introduction of biocontrol agents to suppress alien pests permanently ('classical' biocontrol), the mass production and release of biocontrol agents (including natural and genetically modified biopesticides) and the conservation of natural enemies in crops, which is the basis for integrated pest management (IPM). For all pest targets, biocontrol methods and biocontrol agents, the journal covers the following aspects:

- Biology: natural enemy biosystematics, life cycles, physiology, behaviour, mode of action, host interactions
- Ecology: population dynamics and modelling, community ecology, adaptation and genetics, effects of pesticides
- Production and utilization: mass-rearing, host-range screening, formulation, distribution, application and release methods, monitoring and evaluation
- Commercial development, registration, genetic improvement, quality control
- Regulation: biocontrol policy and legislation, quarantine, safety testing, environmental impact analysis
- Education: training, extension, public awareness, farmer participatory approaches

The **bibliographic content** of *Biocontrol News and Information* is derived from CAB ABSTRACTS – the World's leading bibliographic database covering agricultural science in its broadest sense - and is also available on disk.

Biocontrol News and Information

Volume 20



CABI Publishing

1999

News and Information

Dr. Jeff Wilson

Director, Wallingford Plant Management

CABI Wallingford

Wallingford Park, Wallingford, Oxford

OX10 8DE, UK

Tel: +44 (0)1491 833508

Fax: +44 (0)1491 833508

Email: jwilson@cabi.org

Assistant Editor

Dr. David Wilson

CABI Wallingford

Wallingford Park

Wallingford, Oxford

OX10 8DE, UK

Tel: +44 (0)1491 833508

Fax: +44 (0)1491 833508

Email: dwilson@cabi.org

Editorial Assistant

Wallingford Plant Management

CABI Wallingford

Wallingford Park, Wallingford, Oxford

OX10 8DE, UK

Tel: +44 (0)1491 833508

Fax: +44 (0)1491 833508

Email: editorial@cabi.org

Assistant Editor

Dr. David Wilson

CABI Wallingford

Wallingford Park

Wallingford, Oxford

OX10 8DE, UK

Tel: +44 (0)1491 833508

Fax: +44 (0)1491 833508

Email: editorial@cabi.org

Editorial Board



CAB International
Wallingford
Oxon OX10 8DE
UK

Tel: +44 (0)1491 832111
Fax: +44 (0)1491 833508
Email: cabi@cabi.org

CAB International
10 E 40th Street
Suite 3203
New York, NY 10016
USA

Tel: +1 212 481 7018
Fax: +1 212 686 7993
Email: cabi-nao@cabi.org

© CAB International 1999. All rights reserved. No part of this publication may be reproduced in any form or by any means, electronically, mechanically, by photocopying, recording or otherwise, without the prior permission of the copyright owners.

ISSN 0143-1404

The information contained herein, including any expression of opinion and any projection or forecast, has been obtained for or is based upon sources believed by us to be reliable but not guaranteed as to accuracy or completeness. The information is supplied without obligation and on the understanding that any person who acts upon it or otherwise changes his/her position in reliance thereon does so entirely at his/her own risk.

Printed and bound in the UK by Cambrian Printers, Aberystwyth.

Biocontrol

News and Information

Volume 20

1999

Crops (general)	1	93	191	289
Cereals	3	95	193	290
Fodder plants	7	101	199	295
Grain legumes	9	101	201	296
Root and tuber crops	11	104	203	299
Leafy vegetables, bulb vegetables, stem vegetables	13	106	204	300
Fruit vegetables	15	108	206	302
Temperate fruits	22	112	211	306
Tropical and subtropical fruits	26	117	217	310
Nut crops	30	121	221	313
Fatty oil plants	30	122	221	314
Sugar plants	32	123	222	316
Stimulant plants	34	124	224	316
Fibre plants	34	124	225	318
Forest trees	37	126	227	321
Broadleaf	38	127	229	321
Conifer	39	130	231	323
Ornamental plants	41	131	232	325
Other crops	43	133	234	327
Stored crops	44	133	234	329
Vertebrate pests	47	—	236	330
Useful insects	48	134	237	330
Medical and veterinary	48	135	237	331
Mosquitoes	48	135	237	331
Other flies	50	137	241	333
Miscellaneous	51	138	242	334
Weeds	53	141	245	336
Terrestrial	54	141	245	337
Aquatic	60	144	248	343
Parasitic	—	145	—	344
Integrated pest management	61	145	249	344
Pesticide effects	61	146	250	345
Techniques	64	153	254	348
Rearing and culture	67	153	255	349
Sampling	—	—	258	—
Taxonomy	69	157	258	351
Descriptions	69	157	259	351
Revisions	69	158	260	351
Biology	70	158	260	352
Anatomy and morphology	76	166	269	362
Reproduction and development	76	166	270	362
Behaviour	77	168	272	363
Genetics	82	174	278	371
Physiology and biochemistry	83	174	279	373
Ecology	86	176	280	374
Geographical distribution and checklists	87	178	282	377
Safety and legislation	87	179	282	378
General	87	180	282	378
Reports	92	—	—	—
Conferences	92	188	286	382
Books	92	188	286	382
Author Index	385			
Subject Index	405			
List Of Serials Abstracted	i			

Review Articles

- The potential for biological control of Scotch broom (*Cytisus scoparius*) (Fabaceae) and related weedy species
P. Syrett, S. V. Fowler, E. M. Coombs, J. R. Hosking, G. P. Markin, Q. E. Paynter and A. W. Sheppard 17N
- The red palm weevil as an alien invasive: biology and the prospects for biological control as a component of IPM
S. T. Murphy and B. R. Briscoe 35N
- Biological control of weed and insect pests using fungal pathogens, with particular reference to Sri Lanka
H. C. Evans 63N
- Mass rearing of entomophagous insects and predaceous mites: are the bottlenecks biological, engineering, economic, or cultural?
Allen Carson Cohen, D. A. Nordlund and R. A. Smith 85N
- Balancing biological control strategies in the IPM of New World invasive *Liriomyza* leafminers in field vegetable crops
S. T. Murphy and J. LaSalle 91N
- Biocontrol of eucalyptus psyllid *Ctenarytaina eucalypti* by the Australian parasitoid *Psyllaephagus pilosus*: a review of current programmes and their success
I.D. Hodkinson 129N

Short Article

- A review of *Bacillus thuringiensis* (Bt) production and use in Cuba
Orietta Fernández-Larrea Vega 47N

AUTHOR INDEX

- Aalten, P. M. 904
 Abarca, G. 2587
 Abate, D. 1308
 Abbas, M. S. T. 688, 1393, 2558
 Abbas Ali 249
 Abboud, R. 1964
 Abd-Alla, M. H. 4
 Abd El-Aziz, G. M. 1252
 Abd-El-Halim, M. A. 2119
 Abd-Rabou, S. 213-214, 665, 1183, 1411, 1534
 Abdel-Aal, A. A. 1737-1738
 Abdel-Hafez, N. A. 1456
 Abdel-Rahman, A. 550
 Abdel-Razek, A. S. 1722
 Abdel-Samad, S. 1488
 Abdelkhalek, L. 895
 Abdelzاهر, H. M. A. 935
 Abdul Ghafoor 1437
 Abdurahiman, U. C. 2590
 Abernethy, K. E. 1265
 Abha Agarwal 2167-2168
 Abida Butt 1592
 Abivardi, C. 2021
 Abo-Ellil, A. H. A. 3
 Abol-Ela, S. 614
 Abole, E. 1492
 Abou-Awad, B. A. 2629-2630
 Abou-Elela, M. M. 2629-2630
 Abou-Elhagag, G. H. 1456, 1657-1658
 Abraham Verghese 1606
 Abrahamson, W. G. 2477
 Abramson, C. I. 1263
 Acharya, A. 2401
 Acosta, A. 2384
 Acosta, S. 2705
 Acuná, R. S. 2048
 Adair, R. J. 2471
 Adamo, S. A. 1307, 2009
 Adams, B. J. 1760
 Adams, M. S. 2484
 Adams, T. T. 498
 Adán, A. 1120-1121
 Adang, M. J. 498
 Adebajo, A. 1473
 Adejumo, T. O. 2164
 Adikaram, N. K. B. 193
 Adiko, A. 2642
 Adkins, P. G. 2209
 Adkins, S. W. 419, 1791
 Adler, C. 2097
 Adriaanse, I. C. T. 1318
 Aebi, M. 501, 1858
 Afellah, M. 895, 917
 Afonso, C. L. 2714
 African Farming and Food Processing 1046
 Afroze, S. 510, 2589
 Agarwal, A. 2167-2168
 Agarwal, S. C. 345
 Agarwala, B. K. 1292, 2179
 Agarwala, S. P. 1736
 Aggarwal, A. 731
 Aggarwal, R. 1424, 2131
 Agoua, H. 1749
 Agrawal, A. A. 1652
 Agret, S. 1055
 Agudelo, F. V. de 880
 Aguilera, A. P. 868
 Ahire, P. S. 2333
 Ahire, R. D. 2333
 Ahmad, A. 155
 Ahmad, M. 1277, 1964
 Ahmad, R. 778, 1379
 Ahmadi, A. R. 220
 Ahmadzadeh, M. 1472
 Ahmed, A. S. 1513
 Ahmed, I. 2152
 Ahmed, S. I. 2348
 Ahmed, S. M. 2512
 Ahn, Y. J. 1828
 Ahn Youngjoon 1828
 Aida, K. 824
 Ajri, D. S. 922
 Akbari, L. F. 1619
 Aké, A. 1749
 Akey, D. H. 260
 Akimov, V. 82
 Akpoboua, L. K. B. 1749
 Al-Humairi, A. A. 2110
 Al-Kirshii, A. G. 2410
 Al-Nabhan, M. 1963
 Al-Rawahi, A. K. 124
 Al-Saffar, Z. Y. 961
 Alabouvette, C. 1517
 Alahakoon, C. P. 158
 Alam, M. M. 155
 Alamgir Khan 2655
 Alaniz, S. A. 710, 1237
 Alauzet, C. 2014
 Albrecht, A. 655
 Alderson, P. G. 600, 1214
 Aldrich, J. C. 961
 Alebeek, F. A. N. van 2240
 Alekseev, E. 1772
 Aleksenitser, M. L. 2418
 Alemán, J. 1870
 Alencar, J. A. de 1867
 Alexandri, M. P. 1254
 Alexandrova, M. 1555
 Alfenas, A. C. 956
 Alford, D. V. 1625
 Alford, J. 1102
 Ali, A. 249, 2432
 Ali, A. H. H. 188
 Ali, A. S. R. 923
 Ali, F. 544
 Ali, K. A. 1834
 Ali, M. I. 1330
 Ali, M. I. M. 955
 Ali, O. 1712
 Alimiazee, M. T. 1321
 Aljanabi, S. M. 1769
 All, J. N. 663
 Allan, D. J. 1565
 Allemand, R. 869
 Allen, C. T. 942
 Allen, J. C. 482
 Allen-Williams, L. J. 1414
 Allison, D. 1975
 Alma, A. 2253
 Almeida, J. E. M. 928
 Almeida, M. A. F. de 1759
 Almeida, R. P. de 255, 458-459, 1154
 Aloali'i, I. 1948
 Alonso, A. 1134
 Alonso, L. E. 1911
 Alphen, J. J. M. van 102, 787
 Altizer, S. M. 2623
 Altre, J. A. 542, 1950
 Aluja, M. 953, 1161, 1615, 2275
 Alvarado, M. 944
 Alvarez, A. M. 2379
 Alvarez, J. M. 606, 2680
 Alves, R. T. 1358
 Alves, S. B. 928, 1105, 2517, 2615
 Alves B., S. 749
 Alwis, S. de 165
 Alzogaray, R. 1770
 Amano, H. 1224
 Amano, Y. 294
 Amarista, J. 1742
 Ambethgar, V. 764, 2291
 Ambikadevi, D. 1429
 Ambrose, D. P. 464, 491, 1660, 2043, 2529
 Ambrosio, G. F. 2420
 Ameenullah Khan 277
 Amer, G. A. M. 1424
 American Fern Journal 1802
 Amézquita, M. O. de 2378
 Amin, A. H. 2110
 Amin, A. W. 2181
 Amitava Konar 1596
 Ampofo, J. K. 779
 Ampong-Nyarko, K. 774, 2599
 Anaclerio, F. 1555
 Anahosur, K. H. 2393
 Ananthakrishnan, T. N. 1397
 Anbalagan, G. 2140
 Andersen, A. 2136
 Anderson, A. C. 1483
 Anderson, M. 563
 Anderson, R. C. 2463
 Andow, D. A. 1451
 Andrade, G. 652
 Andreadis, T. G. 1174
 Andreev, R. 547, 1561
 Andrew, R. 1319, 2712
 Andrzejak, R. 2372
 Aneja, K. R. 2794
 Angeli Júnior, A. A. 1185
 Anhold, J. 449
 Anis, M. 645
 Anis, S. B. 1176
 Anitha, N. 1591
 Anitha, R. 470
 Anjiah, V. 766
 Anju Puri 731
 Anjum Ahmad 155
 Ano, T. 654
 Ansar, M. 2152
 Antharia, J. 1619
 Antilla, L. 1101
 Antolin, M. F. 2713
 Anton, S. 1260
 Antoon, B. G. 159
 Anuj Bhatnagar 773
 Anziani, C. 2287
 Appleton, C. 951
 Aqil, T. 2325-2326
 Aquino, I. S. 1263
 Arakaki, N. 564, 1320
 Arakawa, A. 1566
 Arakawa, H. 824, 850
 Arango, P. E. V. 2083
 Araújo, J. V. 1768, 1785, 2453
 Araujo, L. H. A. 1649
 Arbeláez, G. 2378
 Archambault, C. 1300
 Archer, S. 796, 1499
 Arcier, F. F. de 844
 Arellano, F. 1614
 Arends, J. J. 380, 1053
 Arévalo-Niño, K. 1859
 Arias, A. 58
 Arias, A. P. 1902
 Ariawan, H. 47
 Arie, T. 791, 1496
 Ariéns, S. 578
 Aristizábal A., L. F. 1648, 2319
 Ariza, R. 2280
 Armstrong, G. 797
 Arnaudov, V. 547, 1561
 Arndt, W. 2206
 Arnó, J. 2217
 Arnold, D. 909
 Arora, R. 229, 802
 Arras, G. 216, 2266-2268
 Arredondo-Jiménez, J. I. 2423
 Arru, S. 216, 2266, 2268
 Arruda, R. O. M. 1875
 Arrufat, A. 135
 Arthofer, W. 219
 Arthur, F. H. 2531
 Arthurs, S. 2772
 Arthurs, S. P. 2779
 Arun Baitha 554
 Arunava Samanta 1835
 Arya, S. 23
 Arzone, A. 315
 Asano, H. 1083, 2151
 Asano, T. 2080
 Asante, S. K. 864
 Ascher, K. R. S. 2096
 Asfour, H. E. 2195
 Asgari, S. 597
 Ash, G. 2508
 Ash, G. J. 433, 2458
 Ashfaq, M. 941
 Ashfaw, M. 266
 Asifulla, H. R. 2337
 Asin, L. 2132
 Askan, H. 1215
 Askary, H. 2622
 Aslam, M. 936, 1673
 Aslan, M. M. 1937
 Asokan, R. 1543, 1884, 2074
 Assis, S. M. P. de 794, 911
 Ataga, A. E. 98
 Atale, S. B. 42
 Atanasov, N. 713
 Atar Singh 1641
 Athanassov, A. Z. 178
 Atkinson, K. 1587-1588
 Atma Ram 554, 570
 Attathom, T. 1013
 Attignon, S. 1847, 2772
 Attitalla, I. H. 813
 Atwood, D. W. 2330
 Auger, P. 179, 1124
 Auld, B. A. 1792, 2481
 Aupinel, P. 1853
 Austin, A. D. 589, 1885, 1898
 Austin, R. K. 191
 Avilla, J. 855
 Awad, N. G. H. 3, 812
 Awadallah, K. T. 1444
 Awaknavar, J. S. 2337, 2514
 Awande, S. 946
 Awasthi, A. K. 228
 Axtell, R. C. 2427
 Ayal, Y. 595
 Ayertey, J. N. 2138
 Aylor, D. E. 2469
 Ayyappan, R. 1665
 Azad, P. 925
 Azam, G. N. 1327
 Azcón-Aguilar, C. 652
 Azevedo, F. R. de 1235, 1998
 Azevedo, M. D. 756
 Azma, M. 2674
 Bâ, A. M. 2229
 Ba, A. M. 157
 Baaren, J. van 2648
 Baarlen, P. van 1273
 Babendreier, D. 851
 Babi, A. 1963
 Babjan, B. 2740
 Babu, A. M. 840
 Babu, B. R. R. M. 1540
 Babu, G. R. 445
 Babu, R. S. 2224
 Babu, T. R. 1107
 Baby, U. I. 2122
 Bach Knudsen, K. E. 1048
 Bacher, S. 580
 Back, C. 1749
 Backhouse, K. 1265
 Badal Bhattacharya 1633
 Bae, K. S. 2566
 Bae KyungSook 2566
 Baek, J. M. 1650
 Baggen, L. R. 751
 Bagnasco, P. 58
 Bagnoli, G. 2066
 Bagwell, R. D. 273
 Bahena, F. 1122, 1133
 Bai, H. 1824, 2329
 Bai, Y. 1682
 Bai Yang 1682
 Baier, B. 2532
 Bailey, B. A. 391, 691, 2483
 Baillie, G. J. 2413
 Baimai, V. 2035
 Baird, C. R. 761, 2157
 Baird, D. B. 1466
 Baitha, A. 554
 Bajan, C. 1044
 Bajpai, A. K. 1900
 Baker, G. L. 521

- Baker, J. E. 1104, 1846, 1962, 2030, 2531
 Baker, J. L. 905
 Baker, P. S. 1648
 Baker, T. C. 2669
 Bakhetia, D. R. C. 412, 1374, 1631, 1794
 Bakhvalov, S. A. 677
 Bakker, P. A. H. M. 128, 1495
 Bala, G. 1386
 Balakrishnan, A. 1139
 Balamani Bezbaruah 2314
 Balance, C. 1628
 Balaraman, K. 1012
 Balasubramani, V. 1125, 1162, 1907
 Balasubramanian, M. 1659
 Balasubramanian, P. 2123
 Balasubramanian, R. 914
 Balciunas, J. 2472
 Balciunas, J. K. 2470
 Baldanza, F. 2715
 Baldet, T. 351
 Bali, G. 2417
 Ball, L. A. 2462
 Ballal, C. R. 926, 2588, 2695
 Bandara, A. M. P. 158
 Banerjee, B. 1219
 Bangsund, D. A. 2491
 Bankole, S. A. 1473, 2124
 Barbazan, P. 351
 Barber, M. C. 2780
 Barberena, M. F. 1493
 Barbosa, P. 90, 1399
 Barcenas, N. M. 1845
 Barczak, T. 1100, 2732
 Bardhanroy, P. 1292, 2179
 Barea, J. M. 652
 Barker, A. M. 1501
 Barker, C. W. 720
 Barker, G. M. 720
 Barker, R. K. 1263
 Barlow, G. E. 909
 Barlow, N. D. 1045
 Barnes, E. H. 378
 Barrera, A. J. 2385
 Barreto, R. W. 398, 2454, 2467
 Barrion, A. T. 12, 1996
 Barro, P. de 937
 Barron, J. R. 2249
 Barros, G. 1727
 Barros, S. T. 2063
 Barry, J. W. 679
 Barthes, D. 179
 Bartlett, A. 476
 Bartoszek, A. 2024
 Basalingappa, S. 667
 Basedow, T. 738, 2308
 Basit, A. 1633, 1842
 Baskaran, R. K. M. 1376, 2516
 Basri, W. M. 923
 Basso, C. 869
 Bastos, S. T. G. 2063
 Batalha, V. C. 462
 Bateman, G. L. 727
 Bateman, R. 1879, 2772
 Bateman, R. P. 1358
 Bath, D. S. 802
 Bathon, H. 2252, 2770
 Batinić, T. 1522
 Batista Alves, S. 749
 Batson, W. E. 2325-2326
 Battu, G. S. 802
 Baudry, O. 1572, 1584
 Bauer, E. 621
 Bauer, L. 969
 Bauer, L. S. 2000
 Baur, M. E. 795, 1331
 Bautista, R. C. 1158, 1883
 Bautista-Martinez, N. 206
 Baxendale, F. 982
 Baxendale, F. P. 1465, 1467
 Bayan, A. 2747
 Bayram, A. 2158
 Bayram, S. 1714, 1971
 Bazzi, C. 1555
 Bean, G. A. 1477
 Beard, J. J. 2570
 Beardsley, J. W. 902
 Beaulieu, C. 82
 Bebawi, F. F. 2493
 Beck, K. G. 2499
 Beck, M. 2036
 Beckage, N. E. 627, 631, 1306, 2717
 Becker, E. M. 2462
 Becker, N. 1337, 1745, 1750, 2435
 Beckett, A. 796, 1499, 2602
 Becnel, J. J. 1174
 Bečvář, S. 559, 1947
 Bedding, R. A. 2787
 Bedelu, T. 1308
 Bedi, J. S. 402
 Bedini, S. 2066
 Beek, N. A. M. van 1225
 Beers, E. H. 1843
 Beevi, S. P. 2776
 Beg, M. A. 1592
 Beggs, J. M. 1045, 1972, 2353
 Begon, M. 2733
 Behnke, J. M. 2449
 Beigh, G. M. 1478
 Bel, Y. 1319
 Bélanger, R. R. 118, 1514, 1516
 Belarmino, L. C. 2638
 Bell, K. L. 200, 888
 Bell, M. R. 274, 2331
 Bell, R. A. 497, 1881
 Bellinder, R. R. 2193
 Bellini, R. 1746
 Belliveau, W. M. 2495
 Bello, V. A. 1833
 Bellonci, S. 1333
 Bellostas, J. J. 855
 Bellotti, A. C. 1493
 Bellows, T. S. 1664, 2586, 2660
 Belousov, Yu. V. 310
 Belshaw, R. 1318
 Ben-Yakir, D. 54
 Benavides M., P. 2318
 Bénédet, F. 1993
 Benedict, J. H. 2524
 Benfatto, D. 2277
 Benhamou, N. 1514, 1516, 2622, 2708
 Benítez, T. 2071
 Benjama, A. 2289
 Benmoussa-Haichour, D. 2594
 Bennett, F. D. 1322
 Bennett, M. A. 707
 Bennett, R. 975
 Bennett, S. M. 2371
 Bennewicz, J. 2732
 Bennisson, J. A. 985
 Benoît, A. 1556
 Benrey, B. 101, 591
 Bentley, W. J. 907
 Bento, A. 2304
 Benuzzi, D. 1558
 Benvenga, S. R. 897
 Benzon, G. L. 1337
 Berczyński, S. 2238
 Berenbaum, M. R. 539
 Berg, M. A. van den 1605
 Berg, M. van den 1603
 Berger, F. 302
 Berger, R. D. 1810
 Berglund, B. 686
 Bergstrom, G. C. 2127
 Beriayaya 1028
 Berisford, C. W. 1178, 2553
 Bernal, J. S. 208, 599
 Bernardo, U. 1118, 1940
 Bernasconi, M. 37
 Bernier, U. R. 1297, 1767
 Berretta, M. F. 680
 Berry, J. A. 1417
 Berta, D. C. 1530
 Bertagnolli, B. L. 64, 66
 Berti, J. 1742
 Bertolotti, M. A. 1946
 Bertossa, R. 37
 Bertrand, D. 1314
 Bérubé, J. A. 1548
 Beshear, R. J. 199
 Bettiol, W. 1185
 Beveridge, I. 1729
 Beveridge, N. 1132
 Bevilacqua, T. 870
 Bezbaruah, B. 2314
 Bezemer, T. M. 529
 Bezooijen, J. V. 2243
 Bhai, R. S. 1711
 Bhalwar, R. 1140
 Bhanukiran, Y. 1188
 Bhat, B. A. 1478
 Bhat, B. N. 560
 Bhatnagar, A. 773
 Bhattacharya, A. 346-347
 Bhattacharya, B. 1633
 Bhattacharya, I. 99
 Bhattacharya, S. 1292
 Bhattacharya, S. S. 2315
 Bhattacharyya, B. 203, 1842
 Bhuiya, B. A. 1180
 Bi, S. D. 1461
 Bi ShouDong 1461
 Biache, G. 712, 860, 1853
 Bianchi, V. L. del 1875
 Bianciotto, V. 652
 Bidochka, M. J. 632, 2027
 Bidwell, R. 197
 Bidyapati, L. 348
 Bigirimana, J. 2
 Bigler, F. 37, 1099
 Bigot, Y. 1993
 Bij, A. J. van der 128
 Biju Babjan 2740
 Biliwa, A. 339
 Bilodeau, R. J. 1868
 Bin, F. 2020
 Bineeta Sen 114
 Bird, J. 374
 Birnie, L. 1109
 Biró, B. 842
 Bisaccia, F. 1250
 Bishop, A. H. 1019
 Bishop, D. M. 1024
 Bissan, Y. 1749
 Bisset, S. 1860
 Biswas, K. K. 1480
 Biswas, S. 2150
 Bittencourt, V. R. E. P. 1774, 1783, 2444
 Bjorksten, T. A. 819
 Bjørn, H. 2446-2448, 2450
 Bjørnson, S. 1981
 Blackwell, M. 511
 Blaise, P. 694
 Blanco-Metzler, H. 2270
 Blando, S. 1599
 Blanford, S. 441, 571, 2772
 Blaustein, L. 2429
 Bleicher, E. 1867
 Bloem, K. A. 872
 Bloem, S. 872
 Bloemberg, G. V. 128
 Bloesch, B. 2525
 Blommers, L. H. M. 1087, 2240
 Blossy, B. 1813
 Blouin, E. F. 1038, 1771
 Blumberg, D. 2278
 Blümel, S. 311
 Bobadilla, D. 2357
 Bochow, H. 655, 767, 2188, 2410, 2757
 Boczek, J. 1579
 Boemare, N. 625
 Boer, M. de 1495
 Boerties, B. 1827
 Bográn, C. E. 75
 Bogya, S. 1574, 2098
 Bohár, G. 1788
 Boiteau, G. 87
 Boivin, G. 105, 475, 644, 1268, 2017, 2648
 Bokor, P. 1454, 1922
 Boland, G. J. 1787, 2380
 Bollen, G. J. 79
 Bommarco, R. 456, 1289
 Bonfante, P. 652
 Bonsall, M. B. 1310, 2735, 2737
 Bonser, S. P. 427
 Boo, K. S. 2669
 Boo KyungSaeng 2669
 Bora, L. C. 27, 1420, 1497
 Borgemeister, C. 946, 2138
 Borges, M. 772
 Borges Neto, C. R. 1058
 Borisevich, L. V. 702
 Borthakur, M. 1219
 Bortolotti, L. 1836
 Boselli, M. 2309
 Bossart, J. L. 662
 Böttcher, S. 425
 Boukary, I. B. 38
 Boulétreau, M. 1248
 Bourbos, V. A. 110
 Bourdier, R. S. 950
 Bourdôt, G. W. 396, 2469
 Bourgeois, W. J. 887
 Bourne, J. M. 1385
 Bowers, M. D. 1997
 Bowers, R. G. 2733
 Bowie, M. H. 751, 1136
 Boyce, T. G. 2426
 Boydston, L. 1975
 Boyette, C. D. 1163, 1849
 Boys, G. O. 273, 940, 1653
 Bradford, H. 1265
 Bradley, C. 1101
 Bradley, C. A. 533, 709
 Braham, M. 495, 903
 Brajeul, E. 827, 1546
 Bralewski, T. 1532
 Branco Paiva, P. E. 897
 Brandt, S. L. 628
 Brar, K. S. 412, 1374, 1631, 1794
 Brasier, C. M. 958
 Bratu, E. 825
 Braun, S. 1744
 Bravo-Mojica, H. 206
 Bravo-Patiño, A. 2061
 Brazier, C. 172
 Brebaum, S. N. 1787
 Breniaux, D. 172
 Brennan, A. 610
 Brennan, P. 1712
 Breuil, W. O. 2790
 Brewer, M. J. 740, 759, 2148
 Brewster, C. C. 482
 Briand-Panoma, S. 1324
 Briano, J. A. 1776
 Bribosia, E. 858
 Briesse, D. T. 389, 422
 Briscoe, B. R. 1088
 Brishmar, S. 813
 Britton, J. H. 1110
 Brodeur, J. 1215, 2622
 Brødsgaard, H. F. 119, 2101
 Brooks, W. M. 382, 1053, 2034
 Broufas, G. D. 1489
 Broughton, S. 421, 1808
 Broumas, T. 1581
 Brousseau, C. 1333
 Brown, C. 1101
 Brown, G. R. 1676
 Brown, M. L. 2496
 Brown, M. W. 2246
 Brown, P. E. 563
 Brownbridge, M. 704, 2596
 Bruck, D. J. 1443
 Bruckart, W. L. 395, 1062
 Brückner, S. 2196
 Bruijn, F. J. de 128
 Brunner, J. F. 863, 1843
 Bruzesse, E. 400, 2480
 Bryan, M. 312, 978
 Bryk, H. 2238
 Buchenauer, H. 2206, 2762
 Büchs, W. 912, 2739
 Bucki, P. M. 120
 Budai, C. 1199
 Budge, S. P. 239
 Budia, F. 1077
 Budia, F. 1120
 Bueno, V. H. P. 2621
 Bugg, R. L. 1396
 Buhler, W. G. 61
 Bull, C. T. 191
 Bullard, G. K. 1642
 Bullock, R. C. 2274
 Büniger, I. 1538
 Buntin, G. D. 2295
 Buonocore, E. 852
 Burand, J. P. 1683
 Burbano, C. 1701
 Burcher, J. A. 408, 2476
 Burdeinaya, T. V. 161
 Burges, H. D. 1398
 Burgess, D. R. 915

- Burgos, T. 1597
 Burt, W. A. C. M. van der 1199
 Burkholder, W. 1728
 Bürki, C. 404
 Burks, C. S. 1962
 Burlak, V. A. 1016
 Burnell, A. M. 2752
 Burnip, G. M. 1565
 Burr, T. J. 1555
 Burrows, D. W. 2470
 Burwell, C. J. 388
 Bus, A. 1470
 Busam, G. 166
 Buss, L. J. 2356
 Bustamante, E. 121, 195, 1525
 Bustillo, P. A. E. 1648
 Bustillo P., A. E. 2318-2319
 Butcher, R. D. J. 2608
 Butt, G. W. 2371
 Butt, T. M. 796, 916, 1499, 2602
 Buyer, J. S. 1554
 Bylemans, D. 858
 Byrne, J. 1512
 CAB International 692
 Caballero, P. 1077, 1296, 1319, 1433, 2712
 Cabezas, Y. 898
 Caesar, A. J. 2465
 Cagán, L. 1071
 Cagán, L. 1454
 Cagán, L. 1922
 Cai, H. R. 1814
 Cai, Q. N. 938-939
 Cai, Q. X. 1735, 1755
 Cai HongRong 1814
 Cai QingNian 938-939
 Cai QuanXin 938, 1755
 Cal, A. de 111, 1518
 Calbert, G. 594, 2668
 Calcaterra, L. A. 1776
 Caldwell, J. S. 1547
 Caleca, V. 1599
 Calilung, V. J. 1203
 Callaway, R. M. 2495
 Callejas, A. 101
 Caloz, G. 37
 Caltagirone, L. E. 2306
 Calus, A. 2235
 Calvente, V. 1558
 Camacho, E. R. 1777
 Camara, M. 2138
 Camara, M. D. 1287
 Camarero, A. 2559
 Cameron, R. A. D. 1672
 Cammell, M. E. 2369
 Campadelli, G. 871, 967, 1171
 Campbell, A. J. 1676
 Campbell, C. A. M. 2008
 Campbell, J. F. 2640
 Campbell, L. 1512
 Campbell, M. H. 62
 Campobasso, G. 409, 1798, 2402, 2465
 Camporese, P. 966
 Campos, M. 232, 873, 2296, 2544
 Campos A., O. 246
 Campos-Moreno, D. F. 2419
 Cancho, M. 1364
 Candela, M. E. 1513
 Canning, E. U. 1932
 Canovai, R. 968
 Cantón, L. E. 2420
 Cantone, F. A. 1950
 Cantor, F. 1873
 Cantwell, J. B. 2069
 Cao, G. M. 1662
 Cao, X. J. 1662
 Cao GuangMin 1662
 Cao XiaoJun 1662
 Cap, A. S. de 680
 Capalbo, D. M. F. 1875
 Capella, A. 799
 Capps, C. 942
 Carballo, M. V. 901
 Carbonell, T. 1159
 Cardé, R. T. 584, 2033
 Cardona, C. 1485
 Cardona, C. M. 1942
 Carisse, O. 1548
 Carloye, L. 539
 Carlson, D. A. 1297, 1767
 Carlson, D. B. 2432
 Carlton, C. E. 662
 Carneiro, R. M. D. G. 2638
 Carpenter, J. 1504
 Carpenter, J. E. 800, 1216, 1257
 Carpinelli, M. F. 430
 Carreck, N. L. 916
 Carrejo, N. S. 2276
 Carreras, B. 2709
 Carrillo, R. L. 868
 Carrillo-Sanchez, J. L. 206
 Carris, L. M. 670
 Carruthers, R. I. 533
 Carsolio, C. 2708
 Carswell, I. 538
 Carter, N. 2595
 Carvajal, L. M. 2378
 Carvalho, C. F. 1831
 Carvalho, G. A. 1831
 Carvalho, R. S. 891
 Carver, F. J. 2722
 Casañas, M. A. 898
 Casanave, K. A. 1865
 Casanova, A. R. 2584, 2709
 Casas, J. 580, 2724
 Cassiolato, A. M. R. 792
 Castagnoli, M. 1575, 2205, 2254
 Castañé, C. 139
 Casteels, H. 987
 Castellanos, J. J. 2548
 Castillejo, J. I. 1296
 Castillo, A. 2423
 Castillo, J. A. 84
 Castillo, N. 2377
 Castoria, R. 328
 Castrillo, L. A. 382, 2034
 Castro, F. 1077
 Castro, H. A. de 1185
 Castro-Franco, R. 477
 Caudwell, R. 230
 Caugant, D. A. 611
 Cavadós, C. F. G. 1764
 Cavallazzi, G. 2280
 Cave, R. 75
 Cave, R. D. 1433
 Ceballo, F. A. 209
 Cecilio, A. 1576
 Ceglarska, E. 451
 Celli, G. 1836
 Center, T. D. 436, 2494, 2503-2505
 Cervantes, L. A. 329
 Ceuster, T. de 685
 Cha, G. L. 281
 Cha GuangLin 281
 Chai, X. M. 671
 Chai XiMin 671
 Chakrabarti, D. K. 286
 Chakraborty, B. N. 1643
 Chakraborty, S. 1621, 1863, 1882
 Chakraborty, U. 1643
 Chakravarty, P. 1691
 Chalapathy, M. V. 348, 1731
 Chalfant, R. B. 936
 Chalmutz, E. 192
 Chamola, B. P. 2796
 Chan, K. L. 406
 Chand-Goyal, T. 329, 1587-1588
 Chandler, S. 1446
 Chandler, D. 2252, 2519
 Chandler, J. 714
 Chandler, M. 1583
 Chandrababu, A. 1944
 Chandrashekar Reddy 2345
 Chandrawathani, P. 376
 Chang, J. H. 2711
 Chang, S. H. 500, 524
 Chang, T. S. 2550
 Chang, T. T. 295
 Chang Qing 1394
 Chang ShaoHua 500, 524
 Chang TaiSen 2550
 Chang TunTschu 295
 Changalarayappa 490
 Channer, A. G. R. de 156
 Chanpaisang, J. 1013
 Chansang, C. 357
 Chanway, C. P. 2070
 Chapelle, L. 1156
 Chapman, J. W. 1433
 Chapman, P. A. 797
 Chapman, R. B. 886, 1136, 1812
 Chapuis, L. 1556
 Charles, J. G. 1565
 Charlton, M. 1276
 Charlton, R. E. 1276
 Charmillot, P. J. 178, 183-184
 Charpentier, G. 1333
 Charudattan, R. 1810
 Charwat, S. M. 2788
 Chassagnard, M. T. 2569
 Chat-Locussol, I. 133
 Chatterjee, M. L. 1621
 Chattoo, B. B. 2422
 Chaudhary, M. 1801
 Chaudhary, S. D. 2515
 Chauke, R. P. 992
 Chaurasia, P. C. P. 765
 Chauvin, R. L. 1567
 Chauzat, M. P. 990
 Chaverri, G. 965
 Chaves, B. C. 1648
 Chaves, G. M. 2048
 Chaves, J. Q. 1764
 Chaves C., B. 2318-2319
 Che, T. Y. 2012
 Che TinYe 2012
 Cheah, C. A. S. J. 974, 1914
 Cheah, L. H. 116
 Chelliah, S. 2540
 Chen, B. H. 1544
 Chen, B. S. 2707
 Chen, C. H. 215, 1350
 Chen, C. J. 610
 Chen, C. Q. 1516
 Chen, C. Y. 160
 Chen, D. L. 1910
 Chen, G. 1500
 Chen, G. C. 1461, 2007
 Chen, G. F. 507
 Chen, G. Y. 1009
 Chen, H. Y. 366
 Chen, J. A. 2756
 Chen, J. H. 248
 Chen, J. J. 2312
 Chen, J. M. 519, 2534
 Chen, J. S. 56
 Chen, L. M. 2212
 Chen, M. 54
 Chen, N. R. 1613
 Chen, P. S. 2106
 Chen, Q. X. 1613, 1880
 Chen, S. B. 2641
 Chen, S. M. 930, 1638-1639
 Chen, T. W. 1490
 Chen, W. H. 2632
 Chen, W. J. 2756
 Chen, W. L. 106, 722-723, 2072, 2212
 Chen, X. H. 250
 Chen, Y. 611, 2121
 Chen, Y. F. 1595
 Chen, Y. G. 635, 1227
 Chen, Y. H. 2142
 Chen, Y. L. 31, 281
 Chen, Y. Q. 1129
 Chen, Y. T. 2106
 Chen, Z. 1168
 Chen, Z. Q. 468
 Chen, Z. S. 1735
 Chen, Z. Y. 19, 31, 442, 2120, 2129
 Chen BaoShan 2707
 Chen BingHuei 1544
 Chen ChiJu 610
 Chen ChunHe 1350
 Chen ChunQuan 1516
 Chen ChunYing 160
 Chen DeLan 1910
 Chen GaoChao 1461, 2007
 Chen Guo 1500
 Chen GuoFa 507
 Chen GuoYing 1009
 Chen HongYin 366
 Chen JiaHua 248
 Chen JianAi 2756
 Chen JianJun 2312
 Chen JianMing 519, 2534
 Chen LingMin 2212
 Chen NaiRong 1613
 Chen PengSheng 2106
 Chen QiaoXian 1613, 1880
 Chen SongBi 556, 2641
 Chen WeiJing 2756
 Chen WeiLiang 722-723, 2072, 2212
 Chen WenHua 2632
 Chen WenLin 106
 Chen XinHua 250
 Chen YanHong 2142
 Chen YingLin 281
 Chen Yong 2121
 Chen YongGe 635, 1227
 Chen YongQiang 1129
 Chen YuFeng 1595
 Chen YuLing 31
 Chen YuTuo 2106
 Chen ZhiQun 468
 Chen ZhiYi 19, 31, 442, 2120, 2129
 Chen ZongSheng 1735
 Cheng, J. A. 48, 2534
 Cheng, W. Y. 930, 1638-1639
 Cheng, Y. H. 960
 Cheng Jia'an 48
 Cheng JiaAn 2534
 Cheng XiaNian 2049
 Cheng YuHeng 960
 Cheo, M. T. 739
 Cheo MingTsang 739
 Chereyathmanjijil, A. 1556
 Chermiti, B. 495, 903
 Chernikov, V. I. 1502
 Chernin, L. S. 161
 Cherry, J. A. 1879
 Chet, I. 1295, 1391, 2708
 Cheyrias, J. M. 134
 Chi, Y. C. 2117
 Chi YuCheng 2117
 Chianese, R. J. 762
 Chiara, S. R. di 1891
 Chien, C. 1702
 Chien ChingChin 1702
 Chihirane, J. 2040
 Chilcutt, C. F. 795, 2400
 Childers, C. C. 199
 Chilvers, L. 1730
 Chin-A-Woeng, T. F. C. 128
 Chinnasri, B. 2640
 Chinnaswamy, K. P. 490
 Chinniah, C. 2530
 Chirico, J. 369
 Chitra, K. C. 2551
 Chitra, S. 1139
 Chmielewski, W. 1715
 Cho, J. M. 1811
 Cho, J. Y. 109
 Cho, K. Y. 393, 403
 Cho JaeMin 1811
 Cho JaYong 109
 Cho KwangYun 393, 403
 Choi, K. H. 674, 1191, 2255
 Choi, K. S. 2363
 Choi, M. Y. 2556
 Choi, Y. C. 2639
 Choi KwangSik 2363
 Choi KyuHwan 674
 Choi KyungHee 1191
 Choi KyungHi 2255
 Choi ManYoung 2556
 Choi YongChul 2639
 Chon, T. S. 2364
 Chon TaeSoo 2364
 Choo, H. Y. 1390, 2786
 Choo HoYul 2786
 Choudhary, A. K. 927, 1103
 Chow, A. 2657, 2696
 Chowanadisai, L. 1013
 Chowdhury, A. 1835
 Christensen, J. A. 388
 Christian, K. 908, 1212, 2292
 Christian, P. D. 1856
 Christiansen-Weniger, P. 2041
 Chu, C. C. 271
 Chun, J. S. 2566
 Chun JongSik 2566

- Chung, B. K. 307
 Chung, E. S. 322
 Chung, H. S. 322
 Chung, J. I. 307
 Chung, S. J. 109
 Chung, W. C. 306
 Chung, Y. J. 2364
 Chung, Y. R. 393, 2566
 Chung BongKoo 307
 Chung EunSun 322
 Chung HooSup 322
 Chung JongIl 307
 Chung SoonJu 109
 Chung YeongJin 2364
 Chung YoungRyun 393, 2566
 Ciampolini, M. 799
 Ciancio, A. 2746
 Ciccarone, C. 516
 Cicco, V. D. 216
 Cicco, V. de 328
 Cilliers, C. J. 1082
 Ciociola, A. I. 1919
 Ciociola Júnior, A. I. 1919
 Cipriani, S. 1546
 Cisneros, J. 1433
 Cisneros, J. J. 270
 Cisternas, E. 1893
 Civolani, S. 2523
 Čížková, D. 945
 Claassens, A. J. M. 1897
 Clare, B. G. 220
 Clark, J. 1730
 Clark, S. J. 600, 796, 2449, 2602
 Clark, T. L. 60
 Claver, M. A. 1660
 Clay, S. A. 13
 Claypool, P. L. 1038, 1771
 Clerck-Floate, R. de 1796, 2464
 Clercq, P. de 460, 830, 1256, 1979
 Clopton, R. E. 301
 Cloutier, C. 629, 785
 Cloyd, R. A. 704
 Cobanoglu, S. 1714
 Cocco, R. 1636
 Cofrancesco, A. F., Jr. 424
 Cogburn, R. R. 2149
 Cohen, A. C. 494, 1302
 Cohen, J. D. 1554
 Cohen, L. 192
 Cola Zanoncio, J. 1149
 Colazza, S. 1279
 Coleman, R. A. 1501
 Coleman, R. J. 272
 Colfer, R. G. 257, 1656
 Coll, M. 213
 Collet, J. M. 107
 Colli, G. R. 568
 Collins, A. P. 349
 Collins, D. J. 2381
 Coloccia, G. 1300
 Colombani, L. 1740
 Colombo, A. 852
 Colomo, M. V. 1530
 Coman, B. 1729
 Comiskey, N. M. 2428
 Conder, N. 971
 Cone, W. W. 2008
 Conlan, C. A. 627
 Connell, J. H. 907
 Connick, W. J., Jr. 1163, 2483
 Consoli, F. L. 1874
 Constant, P. 1324
 Conte, L. 828, 1153
 Converse, V. 336
 Cook, D. W. M. 116
 Cook, J. M. 2608
 Cooke, B. 479
 Cooke, B. J. 2368
 Cooke, R. C. 569
 Coombs, E. M. 405, 2485, 2489
 Coombs, J. 699
 Coombs, M. 1190
 Coombs, M. T. 2616
 Cooney, J. M. 658
 Coosemans, J. 244
 Copeland, R. S. 2426
 Copland, M. J. W. 553
 Copping, L. G. 2099
 Corbet, S. A. 360
 Corbett, A. 714
 Corbo, M. R. 516
 Cordeiro, C. M. T. 1041, 1769, 1778, 2438
 Córdoba, B. C. 247
 Corey, D. 1432
 Cormier, D. 1268
 Cornelis, P. 766, 1514
 Cornell, J. 2680
 Corpuz-Raros, L. A. 1177
 Corrales, D. 1364
 Corrêa-Ferreira, B. S. 1205
 Correia, C. E. 1408
 Correia, A. do C. B. 1036, 1779
 Correll, R. L. 729
 Cortés, C. 2708
 Cortes, C. 1295
 Cortesero, A. M. 583
 Cory, J. 1693
 Cosmao-Dumanoir, V. 2712
 Cossé, A. A. 2669
 Costa, D. M. de 158, 196
 Costa, G. L. da 2425, 2431
 Costa, V. A. 1614
 Costa-Cornelles, J. 1134
 Costanzi, M. 1709
 Coté, J. C. 336
 Cotes, A. M. 1408, 1481
 Cothier, E. 2508
 Cothier, E. J. 433, 2458, 2502
 Cottenceau, M. 2201
 Cottrell, T. E. 1440-1441, 1448
 Coudron, T. A. 628
 Courteix, M. 1568
 Couture, I. 107
 Couty, A. 1985
 Cowan, P. 1730
 Cowles, R. S. 988
 Cox, P. D. 2407
 Cozzi, J. 80
 Craig, G. D. 238
 Craig, T. P. 2477
 Cravedi, P. 174
 Crawford, D. L. 1464
 Crawford, P. J. 1053
 Crawley, M. J. 1678
 Crepin, A. C. 169
 Crespigny, F. E. de 1265
 Crespo, D. C. 1018
 Crespo, J. F. 1049
 Cribb, B. W. 2661-2662
 Cristofaro, M. 409
 Croche, G. 2548
 Croft, B. A. 185, 317, 862, 1826, 1913, 2022, 2322, 2633, 2691, 2697
 Cronin, G. 437
 Crook, N. E. 2203
 Cross, J. V. 2252
 Crous, P. W. 956
 Crozzoli, R. 2746
 Crudele, G. 871
 Crump, D. H. 2190
 Crump, N. S. 2458
 Crutwell McFadyen, R. E. 387
 Cruz, I. 1409, 1919
 Cruz, M. 1485
 Cruz, M. E. G. 379
 Cruz, Y. P. 1246
 Cruz-Vazquez, C. 1780
 Cryer, E. 2104
 Cubero, J. 2288
 Cubeta, M. A. 97
 Cuc, N. T. T. 734
 Cuda, J. P. 416
 Cudare, Z. 681, 1952
 Cudjoe, A. R. 1492
 Cui, F. G. 2117
 Cui, J. J. 1661, 2334
 Cui, Y. L. 622
 Cui FengGao 2117
 Cui JinJie 1661, 2334
 Cui YunLong 622
 Cumming, M. S. 598
 Cúndom, M. A. 122
 Cuo, R. J. 77
 Cuo RongJun 77
 Curtis, F. de 328
 Curto, G. M. 2309
 Cvjetković, B. 1560
 da Costa, G. L. 2425, 2431
 Da Costa, I. Targino 457
 Da Luz, W. C. 20
 da Luz, W. C. 2127
 da Romeiro, R. S. 1515
 da Silva, C. A. D. 1154
 da Silva, F. de A. G. 911
 da Silva, R. B. Q. 212
 da Silveira, E. B. 794
 Daane, K. M. 866, 2306
 Daayf, F. 1514
 Daemon, E. 1774, 1783
 Dahlan, A. N. 536-537
 Dahlsten, D. L. 287
 Dai, M. X. 508
 Dai, X. F. 2335
 Dai, X. Y. 2574
 Dai MeiXue 508
 Dai XiaoFeng 2335
 Dai XiaoYan 2574
 Daigle, D. J. 1163, 2483
 dal Soglio, F. K. 66
 Dali, M. 903
 Daly, S. 64
 Damgaard, P. H. 1951
 D'Amico, V. 964, 1683
 Damme, P. van 657
 Damon, A. 2317
 Dan, H. B. 1129
 Dan HanBin 1129
 D'Andrea, F. 2066
 Daneel, M. 893
 Danfa, A. 2771
 Dangar, T. K. 1367
 Dangerfield, P. C. 1898
 D'Aquila, F. 1709
 Dar, G. H. 1478
 Dara, S. K. 1877
 Darai, G. 1953
 d'Arcier, F. F. 844
 Dargagnon, D. 2014
 Darlington, L. C. 2483
 Darriet, F. 351
 Dart, P. J. 1791
 Darvas, B. 2136
 Das, A. K. 1835
 Das, B. C. 27, 1497, 1842
 Das, G. 1643
 Das, G. P. 334
 Das, N. D. 1480
 Das, S. K. 1643
 Dash, P. C. 979
 Datnoff, L. 1476
 Datnoff, L. E. 768
 Datta, R. K. 840
 Daus, A. 192
 Davanlou, M. 2128
 David, D. R. 1401
 David, P. M. M. 1377
 Davidson, G. 2519
 Davies, K. A. 2788
 Davies, K. G. 2449
 Dawane, P. N. 225
 Dawood, O. A. I. 2233
 Dawson, W. A. J. M. 727
 Day, K. R. 1688
 Day, M. D. 415, 1804
 Day, T. D. 344
 Day, W. H. 762, 2157
 Dayakar, S. 2172
 De, A. B. 2577
 De Agudelo, F. V. 880
 De Alencar, A. Rocha 457
 de Alencar, J. A. 1867
 de Almeida, M. A. F. 1759
 De Almeida, R. P. 255, 458-459
 de Almeida, R. P. 1154
 De Alwis, S. 165
 de Amézquita, M. O. 2378
 de Assis, S. M. P. 794, 911
 de Azevedo, F. R. 1235, 1998
 de Barro, P. 937
 de Boer, M. 1495
 de Bruijn, F. J. 128
 de C. Williams, M. 2388
 De Cal, A. 111
 de Cal, A. 1518
 De Cap, A. S. 680
 De Castañón, M. A. M. 122
 de Castro, H. A. 1185
 De Ceuster, T. 685
 de Channer, A. G. R. 156
 de Cicco, V. 328
 de Clerck-Floate, R. 1796, 2464
 de Clercq, P. 460, 830, 1256, 1979
 de Costa, D. M. 158, 196
 de Crespigny, F. E. 1265
 de Curtis, F. 328
 de Doucet, M. M. A. 1946
 de Faria, M. R. 1640
 de Givès, P. M. 379, 1027, 1049, 2449
 de Granada, E. G. 2374, 2376-2378
 de Jesus, M. 891
 de Jong, M. D. 2469
 de L. R. Mariano, R. 794
 de la Fuente, L. 58
 de la Fuente, M. A. S. 1675
 de la Rosa, A. 944
 de Marciano, D. A. 1938
 de Marco, J. L. 2037
 de Medeiros, M. A. 772, 1825
 de Medeiros, M. B. 1154
 de Medeiros, R. S. 1905
 de Mello, R. P. 1181
 De Melo, I. S. 653
 De Meyer, G. 2
 de Moraes, A. M. L. 2431
 de Moraes, C. M. 1280
 de Moraes, G. J. 1193, 2383
 de Moraes, R. R. 480
 de Nardo, E. A. B. 1614
 de O. Almeida, D. 1640
 de Oliveira, H. N. 2651
 de Oliveira, M. L. R. 1245
 de Oliveira, N. T. 876, 881, 1586
 de Oliveira, P. C. 2425, 2431
 de Paulo Lemos, W. 1905
 De Polanía, I. Z. 45
 de R. de S. Rocha, J. 881
 de R. de Sousa Rocha, J. 1586
 de Rocha, J. R. S. 876
 de S. Dias, J. M. C. 2716
 de S. Ramalho, F. 1235
 de Sá, L. A. N. 1614
 de Silva, J. 2354
 de Sousa, L. P. 1069
 de Souza, I. S. 2638
 de Souza, M. T. 2716
 de Tosetti, M. I. S. 1558
 de Veiga, A. F. S. L. 212
 de Vis, R. 2385
 de Williams, M. C. 2387
 Dean, D. 1304
 Debaraj, Y. 804
 DeBarr, G. L. 1178
 DeBek-Jankowska, A. 2732
 Debjani Dey 241
 Debolt, J. W. 760
 Debras, J. F. 844
 Deepak, K. D. 1103
 Défago, G. 429, 1301
 Defrance, H. 171, 2056
 Degheele, D. 460
 Degrande, P. E. 1119
 Dehne, H. W. 1630, 2103, 2791
 Deka, A. K. 925
 del B. Rodriguez, L. 272
 del Bianchi, V. L. 1875
 del Estal, P. 1077, 1120
 del Moral, J. 1364
 del Rincon-Castro, M. C. 2061
 del Val, I. 1597
 Deleu, R. 444, 1116
 Delfin-González, H. 361
 Delgado, F. X. 1110
 Delgado, N. 1742
 Delgado-Jarana, J. 2071
 D'Elia, A. 693
 Dellmann, K. 655
 DelLoach, C. J. 416
 Delpuach, J. M. 1108
 DeLuca, T. H. 2495
 Demaegd, F. 2235
 Demirbağ, Z. 1617
 Deng, F. Z. 1056
 Deng, S. 160
 Deng, Y. X. 549
 Deng FuZhen 1056
 Deng Suier 160

- Deng YongXue 549
Denholm, I. 1109
Denno, R. F. 101, 572, 636, 1469
Dent, D. R. 1366
Deonier, D. L. 512
Desai, B. D. 465
Desai, S. 2580
Desh Raj 227, 234, 236
Deshmukh, S. D. 473, 1226
Dessi, R. 2266-2267
Dettori, A. 2267
Devappa, V. 150, 2227
Devi, K. U. 1781
Devi, P. B. 1509
Dey, D. 241
D'hallewin, G. 2267
Dhanam, M. 2706
Dharmesh, S. M. 26
Dhillon, A. S. 229
di Chiara, S. R. 1891
di Franco, F. 2277
di Stéfano, J. F. 965
Diadachko, N. P. 1370
Dianese, A. 1512
Dias, J. M. C. da S. 2421
Dias, J. M. C. de S. 2716
Dias, J. M. C. S. 1739
Dias, S. C. 1734
Díaz, I. C. 2782
Díaz, J. L. S. 1873
Díaz, N. B. 721
Díaz, T. 2584
Dicke, M. 36, 578, 1269, 1273, 2006, 2701
Dickens, J. C. 2681
Dickinson, D. J. 2403
Dicko, I. O. 711
Diehl, J. 261
Dietrich, D. R. 448
Digilio, M. C. 1250
DiGiorgio, L. A. 710
Digweed, S. C. 1680
Dijk, N. van 2466
Dijkman, H. 1273
Dijksterhuis, J. 1901
Dijoux, L. 176, 884
Dik, A. J. 118, 1523-1524
Dimitroglou, D. A. 1589
Dimitrov, Y. 547, 1561
Dimock, M. B. 1225
Din, Z. 31
Din Zhu 31
Dinakaran, D. 2291
Ding, J. Q. 468
Ding JianQing 468
Diniz, R. S. 1867
Dinkins, R. L. 2294
Ditommasso, A. 394
DiTommaso, A. 2461, 2500
Dively, G. 90
Dix, I. 2752
Dixon, A. F. G. 1264, 2702
Dixon, G. R. 487
Djoda, D. H. 351
Dlott, J. W. 866
Dmoch, J. 2013
do C. B. Correia, A. 1779
do Prado, A. P. 1759
do Vale, F. X. R. 2048
Dobrowolski, M. 2360
Dobson, C. C. 603
Dobson, R. J. 378
Dock, L. L. 996
Dodia, D. A. 2135
Dolfen, M. 1426
Donahue, J. D. 759
Dong, W. B. 2117
Dong, Y. C. 705
Dong, Y. S. 1350
Dong WeiBo 2117
Dong YinCai 705
Dong YongShan 1350
Donnelly, M. J. 360
Dorn, S. 37, 579, 621, 1270, 1942, 2021, 2405
Dorner, J. W. 1163
dos Santos, C. C. F. 1185
dos Santos, T. M. 2621
Doteuchi, M. 659
Dotray, P. 397
Dou, F. 1821
Dou Feng 1821
Doucet, M. M. A. de 1946
Doubou, C. L. 82
Dowdy, A. K. 1846, 2030
Dowling, D. 652
Dowling, D. N. 237
Dowling, P. M. 426
Down, V. M. 1079, 2490
Downes, M. J. 2745, 2752
Downton, M. 1885, 2032
Dradi, D. 717
Draganova, S. 683
Draganova, S. A. 1210, 1238
Dray, F. A., Jr. 2503, 2505
Dreistadt, R. H. 2797
Dreves, A. J. 709
Dreyer, S. 893
Drezen, J. M. 2717
Driesche, R. G. van 7, 312, 762, 989
Driesche, R. V. 2680
Driesche, R. van 370, 606, 978
Driessen, G. 1278
Driessen, G. J. J. 102, 787
Drift, K. M. G. M. van der 128
Drlik, T. 2497
Droby, S. 192, 1587-1588
Dromph, K. 2585
Drost, Y. C. 716, 1170, 1986, 2015
Drukker, B. 2262
Drummond, F. A. 86, 89
Du, J. Z. 250
Du, Y. J. 73, 2700
Du JiaZhen 250
Du YongJun 73
Duale, A. H. 750
Duan, J. J. 543, 2698
Dubey, S. C. 68
Duffey, S. S. 710, 1237
Duijff, B. J. 1517
Duke, G. M. 1908
Dumanoir, V. C. 2562
Dumroese, R. K. 282
Duncan, C. A. 2496
Duncan, R. E. 2284
Dunn, J. P. 1449
Dunne, C. 237, 2066
Dunne, R. 990, 1712
Duponnois, R. 157, 2228-2229
Duque, B. E. V. 2083
Durairaj, P. 811
Durairaj, S. 277
Durán, J. M. 944
Dureja, P. 1424
Durman, S. 1528
Dušková, E. 806
Dutcher, J. D. 910
Dutcher, M. J. 910
Dutta, P. 1842
Dutta, S. K. 203
Duval, J. 1740
Duvic, B. 625
Dux, J. 2361
Duyn, J. W. van 262
Duzak, D. 352
Dwyer, G. 964
Dyer, L. A. 1281, 2087
Dzieszuk, U. 561
Earnest, L. 942
Eastburn, D. M. 66
Easwaramoorthy, S. 931, 1632, 2543, 2606
Eaton, A. T. 762
Ebling, P. M. 280, 1857
Ebratt, E. E. 1408
Eckel, C. 92
Eckert, J. W. 1587-1588
Eden, L. M. 147
Edman, J. D. 370
Edwards, C. A. 138
Edwards, J. P. 2723
Edwards, K. R. 2484
Edwards, O. R. 546, 745
Edwards, P. B. 2471
Edwards, S. G. 1966
Efron, D. 54
Egea, C. 1513
Egypt 1534
Ehler, L. E. 637
Ehlers, R. U. 983, 1150
Ehteshamul-Haque, S. 78, 834, 2180, 2232, 2299
Eigenbrode, S. D. 602
Eikenbary, R. D. 909, 1263
Eilenberg, J. 1175, 1951, 2154, 2242, 2433, 2585, 2765
Eisemann, S. 1526
Eiteman, M. A. 498
Ejechi, B. O. 1342
Ekbo, B. 1289
Ekesi, S. 774, 1209, 2599
El-Banhawy, E. M. 1959
El-Gantiry, A. M. 1968
El-Ghaouth, A. 163
El-Hajoui, A. 917
El-Haleem, S. T. A. 3, 812
El-Hendawy, H. H. 113
El-Heneidy, A. 1488
El-Hennawy, H. K. 641
El-Kareim, A. I. A. 607
El-Laithy, A. Y. 1578
El-Moughith, A. A. 1822
El-Moursy, A. 620
El-Naggar, M. E. 2119
El-Neshawy, S. M. 2239, 2265
El-Saadany, G. 1363
El-Saedy, M. A. M. 129
El-Sebaey, I. I. A. 1968
El-Shaarawy, M. F. 2199
El-Shazli, A. 1252
El-Sheikh Aly, M. M. 2265
El-Sherif, A. A. 2629-2630
El-Singaby, N. R. 463
Elad, Y. 2, 65, 1401, 1479, 1511, 1524
Elangovan, A. 1012
Elder, R. J. 200, 888
Elek, J. A. 1132
Elekcioglu, N. Z. 1255
Elgar, M. A. 1265
Elkinton, J. S. 964, 1683
Ellil, A. H. A. A. 812
Elliott, L. F. 756
Elliott, M. L. 2494
Elliott, N. C. 2143, 2583, 2649, 2670
Ellis, R. H. 2598
Ellsbury, M. M. 13
Ellsworth, P. C. 261
Elmer, P. A. G. 305
Elmore, C. 1583
Elnaghy, M. A. 935
Elo, S. 1341
Elzen, G. W. 461, 1123, 1845, 2537
Elzen, P. J. 461, 1123, 1845
Emara, N. M. 1444
Embersson, R. M. 1812
Emden, H. F. van 1815
Emmert, E. A. B. 2758
England, A. 267
English-Loeb, G. 1563
Englund, G. 1766
Enikuomehin, O. A. 2124
Enkegaard, A. 119, 2101
Enrique Cantón, L. 1757
Epstein, A. H. 1060
Epton, H. A. S. 98
Erdélyi, C. 1470
Eriksson, T. 2095
Erler, F. 1807
Erol, T. 865
Erper, I. 2456
Ersbøll, A. K. 780
Escaffre, H. 351
Escande, A. R. 120
Escher, R. L. 352
Escudero, L. A. 718
Espiau, C. 426
Estal, P. del 1077, 1120
Estes, P. M. 910
Esther, A. A. P. 1291
Estuningsih, S. E. 1784
Evander, D. 1766
Evans, E. W. 567, 1989
Evans, G. A. 84, 1322, 1894
Evans, H. C. 398, 422, 511, 1634, 2467, 2768
Evans, H. E. 2025
Evans, S. 1061
Eveleigh, E. S. 297
Faarua, M. 1740
Fabrick, J. A. 1104
Fabrizio, M. D. C. 96
Faccini, D. 2183
Faccini, J. L. H. 1774, 1783, 2444
Facknath, S. 104
Facteau, T. J. 329
Faedo, M. 377-378, 1032, 1052
Fagan, W. F. 47
Falabella, P. 1250
Faloona, D. 2773
Fan, M. X. 1754
Fan, M. Z. 1220
Fan, X. H. 1381
Fan MeiZhen 1220
Fan MingXia 1754
Fan XiuHua 1381
Fanti, P. 1250
Fantini, B. 2793
Fantinou, A. A. 1254
FAO Animal Production and Health Paper 1034
Farag, N. A. 2199, 2527
Farghaly, H. T. 1444
Fargues, J. 371, 703, 1773, 1872
Faria, M. R. de 1640
Farid, A. 725
Farkade, B. C. 2333
Färin, S. 1718
Farnesi, I. 799
Farrar, R. R., Jr. 1912
Farrell, G. S. 1066
Fatemy, S. 2645
Fatma, S. A. 2181
Faulconer, S. 588
Faulder, R. J. 1593
Fauzi, M. T. 1791
Fauzia 152
Favareille, J. 1584
Fayad, Y. H. 2479
Fazekas, J. P. 1571
Federici, B. A. 2085
Feicht, E. 2685
Felix, C. R. 2037
Fellowes, M. D. E. 1977
Fels, J. 240
Felton, G. W. 1330
Feng, J. N. 705
Feng, J. X. 28
Feng, L. 248
Feng, L. P. 2141
Feng, M. 1550
Feng, M. G. 640, 1925, 1941, 1974, 1984, 1991, 2607
Feng, S. L. 1381
Feng, X. X. 489
Feng JiaXun 28
Feng JiNian 705
Feng LanPing 2141
Feng Li 248
Feng Min 1550
Feng MingGuang 640, 1925, 1941, 1974, 1984, 2607
Feng ShuLiang 1381
Feng XinXia 489
Fenlon, J. 2743
Fenner, F. 2793
Fenner, M. 1501
Ferguson, A. W. 2298
Ferguson, G. 144
Ferla, N. J. 853
Ferlita, I. 2059
Fernandes, O. A. 746
Fernández, A. S. 2446, 2448, 2450
Fernández, C. 1346
Fernandez, G. E. O. 1049
Fernández, I. C. 898
Fernández, M. 1597
Fernandez-Ruvalcaba, M. 1780
Fernandez-Salas, I. 1010
Ferragut, F. 718
Ferran, A. 143
Ferrandis, M. D. 1319, 2712
Ferré, J. 1319, 2600, 2712
Ferrer, J. 1134
Fey, L. 2548
Fidgen, J. G. 297

- Field, S. A. 589, 594, 1275, 2664, 2668
 Figueiredo, M. de L. C. 1409
 Figueroa, D. 218
 Filho, E. C. 459
 Filip, I. 181
 Filippi, C. 2066
 Filippini, A. 1099
 Filippini, O. S. 96
 Filonow, A. B. 327
 Filser, J. 754
 Finnegan, M. M. 2745
 Finson, N. N. 1618
 Fiorin, A. C. 1036, 1779
 Firle, S. 1289
 Fischer, P. 2366
 Fischer-Le-Saux, M. 1324
 Fisher, J. 389
 Fitter, A. H. 1966
 Fitton, M. G. 1239-1240
 Fitzpatrick, S. M. 2249, 2258, 2260
 Flaherty, J. E. 981
 Flanagan, C. J. 438
 Flanagan, J. 1730
 Flanders, K. L. 1468, 1471
 Fletcher, J. P. 2684
 Flexner, J. L. 264, 2339
 Flinn, P. W. 2531
 Flint, M. L. 313, 2797
 Flores, M. F. 1902
 Flores Ambrosio, G. 1757, 2424
 Flóres Daza, E. 2419
 Florini, D. A. 2164
 Floros, J. D. 996
 Foda, M. S. 2153
 Fodor, A. 1199, 1371
 Fokkema, N. J. 706
 Folgarait, P. J. 2011
 Fonseca, F. B. 45
 Fontes, E. M. G. 1058
 Forcella, F. 13
 Fornasari, L. 418, 1055
 Forno, I. W. 408, 2476
 Forschler, B. 2058
 Fosch, T. 2217
 Fouillet, P. 1108
 Fouly, A. H. 1578
 Foundling, J. 2069
 Fournier, D. 143
 Fournier, F. 475
 Fournier, L. A. 965
 Fowler, S. V. 2485
 Fox, I. 1008
 Fox, L. R. 1906
 Frachon, E. 2562
 Fraga, S. 2548
 Frampton, C. 448, 846, 2215
 Frampton, C. M. 751
 Frampton, C. M. A. 1812
 França, F. H. 1825
 Francardi, V. 2354
 France, C. M. 846
 Franceschini, S. 2382
 Franchini, A. 383
 Franco, F. di 2277
 Franco, S. 2201
 Frändberg, E. 331
 Frank, J. H. 647
 Frank, T. 2111
 Franquet, E. 2434
 Franzmann, B. 937
 Fravel, D. 1347
 Fravel, D. R. 126, 131, 391
 French, B. W. 2143
 French, J. V. 2283
 Frey, S. 1151
 Frost, R. R. 98
 Frużyńska-Jóźwiak, D. 1700, 2372
 Frymier, J. S. 1061
 Fu, W. D. 468
 Fu, W. J. 2683
 Fu, Y. Q. 1381
 Fu WeiDong 468
 Fu WenJun 2683
 Fu YunQin 1381
 Fuchs, J. G. 1301
 Fuente, L. de la 58
 Fuente, M. A. S. de la 1675
 Fuentes-Contreras, E. 590, 1315, 2703
 Führer, E. 2366
 Fuini, L. C. 1614
 Fujie, A. 525
 Fujimori, T. 57, 318, 1057, 1789
 Fujioka, H. 2344
 Fukui, H. 2379
 Fukui, K. 1097
 Fukui, R. 2379
 Funayama, K. 1577
 Funderburk, J. E. 480, 826
 Furtado, I. P. 1193
 Furukawa, K. 1405
 Furuta, Y. 612
 Furuya, N. 1557
 Fuxa, J. R. 1665, 2171
 Gabarra, R. 2217
 Gabel, H. 655
 Gabor, J. W. 726
 Gabrys, B. 1627
 Gabunada, F. 1670
 Gade, R. M. 992
 Gadomski, H. 1627
 Gadoury, D. M. 1563
 Gage, S. H. 1452
 Gagné, R. J. 1685
 Gahbiche, H. 495, 903
 Gaines, D. N. 798
 Gajek, D. 1579
 Galaini-Wraight, S. 533
 Galán, M. 2705
 Galán-Wong, L. J. 1859
 Galan-Wong, L. J. 477
 Galande, S. M. 922
 Galez, B. 2201
 Gallo, J. 1460
 Gallo, P. 2357
 Gambier, J. 143
 Gandolfo, M. 1709
 Ganesh, S. 116
 Gange, A. C. 2390
 Gao, B. D. 1861
 Gao, G. Q. 2756
 Gao, R. X. 532
 Gao, X. B. 160, 1392
 Gao BiDa 1861
 Gao GuoQiang 2756
 Gao RiXia 532
 Gao ShiJian 100
 Gao XueBiao 160, 1392
 Garcés de Granada, E. 2374
 García, A. U. 1203
 García, M. S. 896
 García, P. G. 2376
 García-Alvarado, J. S. 477
 García-Cuadrado, N. 1364
 García G., A. 246
 García-Lepe, R. 111, 1518
 García-Marí, F. 2257
 García-Vázquez, Z. 1780
 Gardezi, S. R. A. 1939
 Gardner, D. E. 1790, 2463
 Garg, A. K. 1944
 Gargas, A. 1175
 Garibaldi, A. 980, 2373
 Garita, V. S. 121, 1525
 Garms, L. M. 1269
 Garnier, G. 2525
 Garrido, A. 1173, 1229, 1231, 1594, 1960
 Gasoni, L. 80
 Gaudio, L. 2715
 Gaugler, R. 609, 615, 1262, 1309, 2718
 Gaunt, R. E. 396
 Gautam, R. D. 1944
 Gauthier, C. 169
 Gauthier, N. 1994
 Gavi Gowda 2451, 2573, 2775
 Gawor, J. 385
 Gaylor, M. J. 269
 Gázquez, P. 1686-1687
 Gealy, D. R. 2487
 Geden, C. J. 380, 1297, 1767
 Geels, F. P. 1232
 Geervliet, J. B. F. 578
 Geetha, B. 585, 1878
 Geetha, N. 2663
 Geetha Bali 2417
 Gelernter, W. D. 1390
 Gelman, D. B. 497, 1306, 1881
 Gelok, E. 970
 Gen, O. 1496
 Geng, J. G. 1461, 2007
 Geng, Y. L. 298
 Geng JiGuang 1461, 2007
 Geng YiLong 298
 Gentry, G. 2087
 Geoghegan, I. E. 1005
 George, P. J. E. 464, 1926, 2529, 2603, 2675, 2687
 George Koshy 1824
 Georgiev, G. 2352, 2749
 Georgis, R. 1146, 1225
 Gerding, M. 1893
 Gerding, P. M. 1719
 Gerhardsen, B. 35, 728, 2076
 Geriev, K. T. 51
 Gerling, D. 1089, 1969
 Gerritsen, L. J. M. 639, 2710
 Gesner, G. 975
 Gessesse, A. 1308
 Getz, W. M. 1980
 Ghaffar, A. 78, 145, 834, 2180, 2232, 2299
 Ghafoor, A. 1437
 Ghonim, M. I. 2207
 Ghosh, R. 879
 Ghosh, S. K. 1348, 1801
 Ghosh, S. M. 1186
 Giannakou, I. 1388
 Giannakou, I. O. 809
 Giannotti, J. 614
 Giayetto, A. L. 1946
 Gibb, K. 908, 1212, 2292
 Gibb, T. J. 61
 Gibbs, J. N. 1692
 Gibson, D. M. 2773
 Giesler, L. J. 59
 Gilbert, F. 1242, 1992
 Gilbert, L. E. 1195, 1899, 2011
 Giles, D. K. 1145
 Giles, K. L. 786, 2053
 Gill, S. A. 709, 984
 Gillespie, R. 1975
 Gilligan, C. A. 1848
 Gillmore, J. L. 1069
 Gilman, J. L. 2722
 Gindin, G. 2601
 Gingras, J. 38
 Giorgini, M. 1118
 Giraldo Fadul, M. A. 247
 Gijraja, V. K. 323
 Girin, C. 1248
 Girish, A. G. 560
 Girolami, V. 717, 1839, 2351
 Giuge, L. 143
 Givaudan, A. 625
 Gives, P. M. de 1027, 1049, 2449
 Glare, T. 2029
 Glare, T. R. 2112
 Glazer, I. 54, 1038, 1771-1772, 2278, 2719, 2744
 Glickmann, E. 1588
 Glinwood, R. T. 1272, 1987, 2700
 Glinwood, T. 222
 Glupov, V. V. 677
 Gnanamanickam, S. S. 732, 1427
 Gnatzy, W. 1260
 Godeas, A. 769, 1528
 Godfray, H. C. J. 71, 782, 1318, 1977, 2734, 2738, 2741
 Godfrey, L. D. 257
 Godin, C. 105, 644
 Goeden, R. D. 1967
 Goerge, P. J. E. 452
 Goergen, G. 946
 Goettel, M. S. 1908
 Gohbara, M. 1789
 Gokulapalan, C. 2329
 Goldenberg, S. 2278
 Goldman, P. 265
 Goldson, S. L. 1466
 Golovanova, T. I. 814
 Gols, G. J. Z. 2006
 Gols, R. 363, 1223
 Goma, H. 132
 Gomes, A. P. S. 1768, 2453
 Gómez, L. 108
 Gómez, R. B. 1902
 Gomez-Dantes, H. 1010
 Gomma, A. 1363
 Gong, H. 1936
 Gong, H. F. 723, 2072
 Gong He 1936
 Gong HongFei 723, 2072
 Gonghareno, O. I. 1370
 Gonzales, R. 1628
 Gonzáles, W. L. 2703
 González, C. 2218
 González, D. 599, 1742
 González, E. 1645
 Gonzalez, J. 272
 González, J. G. 2677
 González, J., Jr. 1742
 González, M. 1120-1122, 1133
 González, O. R. 2276
 Gonzalez, P. 643
 González, R. 195
 Gonzalez Cruz, M. E. 379
 González-Hernández, H. 1616
 González Ruiz, R. 1686
 González Ruiz, R. G. 1687
 González-Zamora, J. E. 2257
 Gooday, G. W. 1298
 Goodman, R. M. 2208, 2312
 Gopalakrishnan, C. 1543
 Gopalan, M. 2216, 2663
 Gordeev, A. 43
 Gordh, G. 536-537, 601, 2661-2662
 Gorris, L. G. M. 1901
 Gorrochotegui-Escalante, N. 1010
 Górski, R. 1532
 Goryacheva, I. I. 1930
 Goswami, B. K. 16, 2223
 Goud, K. B. 1126
 Gouge, D. H. 476, 2332
 Gould, F. 2600
 Gould, F. L. 1602
 Gould, J. R. 1545
 Goulson, D. 1102, 1433
 Gourlay, A. H. 1806
 Govan, J. R. W. 657
 Govind, S. 2625
 Govindaiah 1900
 Gowanlock, K. 2027
 Gowda, G. 2451, 2573, 2775
 Gowen, S. R. 154, 156, 689, 809, 904, 1386, 1388, 2642
 Goyer, R. A. 1665
 Grabenweger, G. 2597
 Gracia-Garza, J. A. 391
 Graf, G. 1975
 Graf, V. 1890
 Grafton-Cardwell, E. E. 892
 Granada, E. G. de 2376-2378
 Granados, R. R. 624
 Granges, A. 140
 Grasswitz, T. R. 1258, 2005
 Gravena, S. 897
 Gray, D. A. 534
 Grbić, M. 565
 Greany, P. D. 1216
 Greathead, D. J. 9
 Greaves, M. P. 1079, 2490
 Greco, C. F. 1458
 Greco, N. M. 2259
 Green, R. F. 595
 Green, S. 396
 Greenberg, S. M. 253, 488, 1915, 2338, 2631
 Greene, G. L. 366
 Greenland, J. 1605
 Greenman, J. 1311
 Greenstone, M. 1413
 Greenstone, M. H. 1851
 Greer, R. 279
 Gregušková, R. 1421
 Grenier, S. 1156
 Gressive, C. 995
 Grewal, P. 1146
 Grewal, P. S. 1225, 2561
 Grey, W. E. 32, 1849
 Griensven, L. J. L. D. van 1232
 Griesch, J. 1303
 Griffin, C. T. 2745, 2752

- Griffiths, M. W. 386
 Griggs, M. H. 1965
 Grille, G. 869
 Grimm, C. 2290
 Gringorten, J. L. 1931, 2582
 Gripwall, E. 1852, 2539
 Grobbelaar, E. 673
 Groden, E. 86
 Grodowitz, M. J. 439, 2505
 Groeneveld, R. M. W. 2466
 Gromovikh, T. I. 814
 Grønvold, J. 374, 1048, 2446-2448, 2450
 Grosch, R. 123, 2757
 Grosjean, O. K. 905
 Grossniklaus-Bürgin, C. 619, 2042
 Grote, D. 123
 Grové, T. 1604
 Gruber, A. 2650
 Gruenberg, A. 1860
 Grushecky, S. T. 279
 Gu, D. X. 217, 737, 1227, 1453, 1457
 Gu, H. C. 1838
 Gu, Y. H. 1152
 Gu DeXiang 217, 737, 1227, 1453, 1457
 Gu HongCang 1838
 Gu YuHuan 1152
 Gualtieri, G. 58
 Guan, G. L. 2574
 Guan, J. Z. 723
 Guan, X. 532
 Guan GuiLan 2574
 Guan JiangZhi 723
 Guan Xiong 532
 Guaycurus, T. V. 1750
 Gubbaiah 724
 Guedes, R. N. C. 462, 1196, 2526
 Guerra, M. 590
 Guerra, R. 1899
 Guerrero, H. C. 2301
 Guerrieri, E. 2178
 Gueye, M. 2228
 Guglhör, W. 2365
 Guharay, F. 1462
 Guillaud, J. 1156
 Guillon, M. 712
 Guimarães, M. P. 1768
 Guksian, V. M. 814
 Gulati, M. K. 1559, 2194
 Gulewicz, K. 1100, 1701
 Gullino, M. L. 980, 2373, 2754
 Gunasekaran, K. 1012, 1014
 Guntli, D. 429
 Guo, B. Q. 70
 Guo, F. G. 1056
 Guo, M. F. 2628
 Guo, S. J. 100, 450, 1130
 Guo, Y. J. 366
 Guo, Y. R. 894
 Guo, Y. Y. 2335
 Guo, Z. Z. 566, 1192
 Guo BingQun 70
 Guo FengGen 1056
 Guo MingFang 2628
 Guo ShiJian 450, 1130
 Guo YaoRong 894
 Guo Yulie 366
 Guo YuYuan 2335
 Guo ZhenZhong 566, 1192
 Gupta, D. K. 2422
 Gupta, G. P. 2667
 Gupta, H. C. 1000
 Gupta, I. J. 1000
 Gupta, J. 2211
 Gupta, M. L. 2789
 Gupta, P. 558
 Gupta, P. R. 1540
 Gupta, R. B. L. 1115, 1934
 Gupta, S. K. 69
 Gupta, V. P. 1900
 Gurr, G. M. 751, 2084, 2520
 Gurusiddaiah, S. 2487
 Gusmão, M. R. 2526
 Gut, L. J. 863
 Gutiérrez, A. 2708
 Gutierrez, A. 1295
 Gutierrez, A. P. 471
 Gutierrez, O. 326
 Guvrin, E. 1401
 Haahela, K. 1341
 Haansuu, P. 1341
 Haas, L. 1335
 Habeck, D. H. 1069
 Habib, M. E. M. 545
 Hachiya, K. 801
 Hackenberg, C. 2192
 Hafes, B. 1119
 Hafez, M. 550, 620
 Hafez, M. B. 2535
 Hafez, S. M. 1959
 Hager, H. A. 2511
 Hagler, J. R. 481, 1138
 Hagstrum, D. W. 1962
 Hague, N. G. M. 2643, 2656
 Hågvær, E. B. 755
 Hai Yu 1553
 Hajek, A. E. 290, 632, 969, 1360, 1663, 2242
 Haji, A. T. 1867
 Haji, F. N. P. 1867
 Hakim, A. L. 47
 Halarewicz-Pacan, A. 1627
 Halbert, S. E. 2107-2108
 Hall, F. R. 1395
 Hall, K. E. 699
 Hall, P. M. 971
 Hallett, S. G. 401
 Halonen, M. 1679
 Halstvedt, M. 2499
 Halstvedt, M. B. 2496
 Haltrich, A. 906
 Hamad, N. F. 1737-1738
 Hamasaki, K. 2507
 Hamilton, G. C. 2026
 Hamm, J. J. 1137, 2085, 2145
 Hammes, G. G. 268
 Hammock, B. D. 710, 1237
 Hamon, S. 1752, 2562
 Hamouda, S. 544
 Han, M. W. 2620
 Han, S. C. 1156, 1613, 1880
 Han, X. Q. 1694
 Han ManWi 2620
 Han ShiChou 1613, 1880
 Han XiangXuan 1694
 Hanada, T. 801
 Hance, T. 743
 Hancock, J. G. 124
 Handelsman, J. 2208, 2312, 2758
 Handique, R. 1219
 Hanifa, A. M. 748, 2541
 Hanks, J. B. 63
 Hansen, B. M. 2753, 2764
 Hansen, L. S. 2408
 Hanski, I. 634
 Hanumanthaswamy, B. 2573
 Hanumanthaswamy, B. C. 2451
 Hao, S. H. 2533
 Hao, X. 2210
 Hao SuHua 2533
 Haq, M. A. 2474
 Haque, M. A. 1932
 Haran, S. 2708
 Harbaugh, B. K. 981
 Hardee, D. D. 274, 2331
 Hardie, J. 1987, 2041, 2800
 Hardy, I. C. W. 1236
 Hare, J. D. 593, 1271
 Hargreaves, J. 1327
 Harish, S. 1184
 Harland, D. P. 1995
 Harman, G. E. 697-698
 Harmsen, R. 1569
 Harpal Singh 741
 Harris, A. R. 2209
 Harris, C. L. 1166
 Harris, E. J. 1158, 1883
 Harris, P. 1786
 Harris, R. J. 2443
 Harsh, N. S. K. 957
 Hartfield, C. 174
 Hartke, A. 89
 Hartling, L. K. 2595
 Harvey, I. C. 396
 Harvey, I. F. 2684
 Harvey, J. A. 363, 1223, 2699
 Harwood, S. H. 627
 Hasan, M. 1002
 Hasan, S. 2455
 Haseeb, M. 1590
 Hashim, I. 319
 Hashmi, G. 615
 Hashmi, R. Y. 33
 Hashmi, S. 2718
 Hasky-Günther, K. 93
 Haspel, G. 1782
 Hassan, M. F. 2629-2630
 Hassan, S. A. 2078
 Hassan, S. A. 1119, 2535
 Hassanein, E. E. 2479
 Hassani, M. 943
 Hassell, M. P. 1310, 2735
 Hassoon, I. K. 159
 Hassouna, M. G. 129
 Hatab, M. A. 609
 Hatat, G. 2456
 Have, A. 2790
 Hayasaka, S. 1916
 Hayes, A. E. 2260
 Hazarika, L. K. 1167
 He, J. H. 100, 1895, 2057
 He JunHua 100, 1895, 2057
 Headrick, D. H. 2586, 2660
 Heard, T. A. 408, 2476
 Heath, D. 1730
 Hebbard, K. P. 127, 691, 2483
 Hebbard, P. K. 391
 Hebsy Bai 1824, 2329
 Hegazi, E. M. 463, 1165, 1252, 2704
 Hegde, S. G. 2393
 Hegna, I. 611
 Heijne, B. 2240
 Heimbach, U. 1450
 Heimpel, G. E. 523
 Heinz, K. M. 264, 267, 316, 1865, 2339, 2341
 Heitland, W. 1697
 Hejzlar, P. 1249
 Hekal, A. M. 1488
 Helbig, J. 338-339, 1721
 Helgason, E. 611
 Heller, A. 2486
 Hem Saxena 778, 1379
 Hemerik, L. 2699
 Hemptinne, J. L. 1264, 1580
 Hénaut, Y. 2014
 Henderson, D. 970, 1261
 Hendriksen, N. B. 2764
 Heng-Moss, T. 982
 Heng-Moss, T. M. 1465, 1467
 Henneberry, T. J. 260, 271, 476, 588, 2332
 Henneman, M. L. 221
 Hennessy, D. R. 377
 Henning-Helbig, S. 339
 Henningsen, E. 2446, 2450
 Henriksen, B. B. 2753
 Henriksen, S. A. 374, 1048, 2446-2447
 Henschel, J. R. 754
 Hentschel, K. D. 655
 Hera, K. 1119
 Herberstein, M. E. 976, 1265
 Hernandez, E. L. 1049
 Hernández, L. M. 1407
 Hernández-Vázquez, S. 1434
 Herrera-Estrella, A. 1295, 2708
 Herring, C. 180
 Hershey, A. E. 2047
 Hertel, F. 568
 Hervás, A. 768, 1476
 Herz, A. 1697
 Herzog, G. A. 258, 936, 2627
 Hetherington, S. D. 2492
 Hevesi, M. 2757
 Heviefo, G. 1879
 Heydari, A. 251
 Hidalgo, L. 108
 Higgins, P. 237, 1629
 Higuchi, H. 2175
 Higuchi, K. 353, 2766
 Hijiweg, T. 810
 Hilbeck, A. 92, 1099
 Hill, C. A. 1037
 Hill, D. E. 1047
 Hill, J. H. 1060
 Hill, M. 2509
 Hill, M. P. 1080, 1082, 1809
 Hill, R. L. 428, 1806
 Hill, S. J., Jr. 340
 Hills, L. A. 1078
 Hinarejos, R. 1173
 Hinds, L. 2093
 Hintz, W. E. 2462
 Hinz, H. L. 1799
 Hirai, K. 1142
 Hirai, M. 654
 Hirai, Y. 1362
 Hiramatsu, T. 1876
 Hiromori, H. 447
 Hirose, Y. 76, 551, 1288, 1539
 Ho, C. C. 2632
 Ho ChyiChen 2632
 Hochuli, A. 2726
 Hockenhull, J. 2128
 Hoddle, M. S. 7, 989
 Hodge, K. T. 242
 Hodge, S. 2215
 Hodges, R. J. 603
 Hodgson, C. J. 1277
 Höding, B. 2757
 Hoelmer, K. 1101
 Hoelmer, K. A. 271
 Hoffmann, A. A. 819
 Hoffmann, C. 2244
 Hoffmann, J. H. 407, 2457, 2482, 2488
 Hoffmann, K. H. 2003
 Hoffmann, M. P. 2193
 Hoffmann-Hergarten, S. 93, 2194
 Hoffmeister, T. S. 592, 851
 Hofkin, B. V. 2426
 Hofstetter, R. W. 587
 Hofsvang, T. 755
 Höfte, M. 2, 766
 Hogsette, J. A. 1018, 1039
 Hökeberg, M. 30, 35, 728
 Hokkanen, H. 805
 Holland, J. 1412
 Holland, J. M. 1102
 Holland, R. J. 2655
 Holler, T. 2275
 Hollingsworth, R. G. 1653
 Holmes, K. A. 238
 Holmes, R. J. 165
 Holtkamp, R. H. 2471
 Holtz, B. A. 330
 Honda, H. 2004
 Honda, J. Y. 551, 1539
 Honda, N. 94, 654
 Honda, T. 1286
 Honěk, A. 604
 Hong, C. X. 330
 Hong, H. Z. 1382
 Hong, S. Y. 2214
 Hong, T. D. 2598
 Hong, X. 722
 Hong, Y. K. 1811
 Hong ChuanXue 330
 Hong HuaZhu 1382
 Hong SunYoung 2214
 Hong YeonKyu 1811
 Hongo, K. 889
 Honorio, S. 2420
 Honorio Martínez, S. 2424
 Hooda, I. 763
 Hoogenboom, A. 1355
 Hoover, K. 710, 1237
 Hopen, H. J. 2402
 Hopper, K. R. 745
 Horák, P. 1921
 Horev, B. 192
 Horgan, F. G. 1570
 Horie, H. 991
 Horikoshi, M. 36
 Horino, O. 2198
 Horiuchi, I. 294
 Hormazabal, R. L. 1719
 Horn, A. 451
 Horner, G. 1730
 Horner, J. D. 2477
 Horowitz, A. R. 1098
 Horwath, W. R. 756
 Hosking, J. R. 2485
 Hosono, A. 21
 Hossain, Z. 751
 Hoti, S. L. 1756

- Hou, L. W. 960
Hou, R. F. 44
Hou, Z. Y. 70
Hou LiWei 960
Hou ZhaoYuan 70
Houck, M. A. 1970, 1983
Hougard, J. M. 351, 1749
Hough, G. 1558
Howard, M. N. 1653
Howard, R. W. 1276
Howell, C. R. 1650
Hoy, M. A. 546, 1372, 1608
Hoynes, C. D. 1477
Hsiang, T. 304, 1463
Hsiao, W. F. 663, 2038
Hsiao WenFeng 663, 2038
Hsieh, C. M. 1234
Hsieh, S. P. Y. 56
Hsieh ChienyanMark 1234
Hsu, C. L. 257
Hu, C. 486, 1220, 1667, 2089
Hu, D. X. 635
Hu, F. P. 194
Hu, G. Y. 800, 1498, 1504, 1862
Hu, J. G. 2720
Hu, J. S. 497, 1881
Hu, M. J. 1381
Hu, M. Y. 2777
Hu, R. J. 1025, 1042
Hu, Y. L. 1550
Hu Cui 486, 1220, 1667, 2089
Hu DeXiang 635
Hu FangPing 194
Hu JianGuo 2720
Hu MeiYing 2777
Hu MingJun 1381
Hu RenJie 1025, 1042
Hu YongLan 1550
Hua, S. S. T. 905
Huang, B. 1667
Huang, B. R. 1662
Huang, B. W. 15, 532
Huang, F. 1669
Huang, J. 1182
Huang, J. D. 1312
Huang, J. W. 306
Huang, K. 601
Huang, S. N. 818
Huang, S. W. 2460
Huang, T. Y. 1550
Huang, Y. Y. 472, 1365
Huang, Z. P. 15, 532
Huang BinRong 1662
Huang BiWang 15, 532
Huang Bo 1667
Huang Feng 1669
Huang JiaDa 1312
Huang JianRen 357
Huang Kui 601
Huang ShaoNing 818
Huang ShiWen 2460
Huang TingYu 1550
Huang YueYing 472, 1365
Huang ZhiPeng 15, 532
Hubbard, J. E. 1554
Hubbard, S. F. 2684
Huber, J. 2252
Hudson, P. 1311
Huet, D. 1985
Hugar, P. S. 2248
Hughes, L. L. 1455
Hui, K. P. C. 475
Hui KaPo 475
Huis, A. van 1720
Hulshof, J. 986
Humber, R. A. 242, 269, 670, 1949, 2242
Hunt, T. R. 1813
Hunter, M. S. 1927, 2679
Hunter, T. 1677
Huntington, E. R. 1017
Hurd, H. 2722
Hurle, K. 2461
Hurst, G. D. D. 1314
Hussain, M. 1939
Hussaini, S. S. 2637
Hussein, A. M. 641
Hussein, M. Y. 1233
Hüttermann, A. 696
Huusela-Veistola, E. 744
Huwert, R. K. 1805
Huzurbazar, S. 2148
Hwang, I. Y. 1903
Hwang, S. H. 2766
Hwang IngYu 1903
Hyland, K. E. 1025, 1042
Iannacone Oliver, J. A. 2174
Iarossi, A. R. 896
Ibáñez-Bernal, S. 361
Ibarra, J. E. 2061
Ibrahim, A. M. 1444
Ibrahim, I. K. A. 2233
Ibrahim, L. 796, 916, 2602
Ichimatsu, T. 2766
Ichimura, D. M. 1883
Ichitani, T. 1520
Idoine, K. 312, 978
Iede, E. T. 2094
Ignat'eva, T. N. 701
Imura, K. 21
Iizuka, T. 1259, 2666
Ikeda, E. 2571
Ikeda, F. 1093
Ikotun, T. 2164
Ikram, A. 319
Ilharco, F. A. 1576
Imaizumi, S. 57
Impe, G. van 858
Impson, F. A. C. 2482
Imura, O. 1068
Imwinkelried, J. M. 2156
Inbar, J. 1295
Ince, J. 197
Inderjit 2498
Indra Hooda 763
Indu Jalali S. 2068
Ingle, S. T. 473
Inglis, G. D. 1908
Inglis, P. W. 1837
Inoue, A. 2080
Inoue, H. 1157, 1356
Inoue, M. 1573
Inoue, M. S. R. 1222
Inoue, S. 1557
Inyang, E. N. 796, 1499
IPM Practitioner 1086
Iriarte, J. 1319, 2712
Irulandi, V. 570
Irwin, J. A. G. 2492
Isaka, M. 816-817
Ishibashi, N. 2518
Isidoro, N. 2020
Islam, N. 1420
Islam, W. 2552
Isnaini, M. 915
Isobe, K. 1083, 2151
Issoufou, I. 767
Itami, J. K. 2477
Ito, K. 522
Ivey, P. W. 790
Ivezić, M. 1707
Iwami, J. 527
Iwasa, Y. 341
Iwasaki, A. 1405, 1635
Iwasaki, S. 817
Iwasaki, T. 1436
Izhevskii, S. S. 719
Izono, Y. 848
Jabaji-Hare, S. 1300
Jacas, J. 1173, 1229, 1231, 1594
Jacas, J. A. 1960
Jäckel, B. 1383
Jackson, C. G. 481, 760
Jackson, L. E. 981
Jackson, M. A. 1061, 1163, 1872
Jackson, R. R. 1995-1996
Jacob, H. S. 1989
Jacobs, J. S. 430
Jacobson, J. L. 1040
Jacques, P. 1514
Jaffee, B. A. 1336
Jagadeesh, K. S. 2763
Jagdish, K. S. 2321, 2775
Jagmohan Singh 412, 1374, 1631, 1794
Jagpal Singh 81
Jahagirdar, S. 2549
Jahn, G. C. 902
Jahn, M. 2187
Jahroini, F. 2508
Jahromi, F. G. 433
Jairajpuri, M. S. 152
Jaiswal, A. K. 345-347
Jalali, A. A. H. 244
Jalali, B. L. 5
Jalali, I. S. 2068
Jalali, S. K. 1113, 1148
Jalaluddin, S. M. 204
James, C. 8
James, D. G. 1593
James, R. L. 282
James, R. R. 1913
Jamieson, C. D. 2729
Janagarajan, A. 1377
Janardhana, G. R. 1423
Jankevica, L. 681, 1952
Jansen, J. P. 1117, 1841
Janssen, A. 586, 2016
Jansson, R. K. 1322
Japan, Japanese Nematological Society 2792
Jariya Chanpaisang 1013
Jaronski, S. T. 533, 709, 1101
Jarošik, V. 604
Jarrett, P. 2252
Jarrold, S. 2039
Jaśkiewicz, B. 2024
Jaswant Singh 741
Javoy, M. 133
Jaworska, M. 74, 2169-2170, 2730, 2783
Jaworska, T. 467
Jayakumar, R. 2028
Jayanth, K. P. 1054, 1801, 2475
Jayaraj, S. 1375
Jayaramaiah, M. 2321
Jayaraman, K. 1139
Jayashree, K. 1585
Jayasuriya, K. E. 2073
Je, Y. H. 2711
Jean, C. 785
Jeanneret, P. 178
Jebanesan, A. 1095
Jech, L. F. 588
Jeffrey, P. L. 2493
Jeffries, P. 168
Jenkins, N. E. 1879, 2598
Jensen, A. B. 1175
Jensen, K. I. N. 434
Jensen, K. M. V. 2440
Jeong, S. K. 2214
Jeong SunKyung 2214
Jervis, M. 1241-1242
Jervis, M. A. 232, 1223, 2296
Jespersen, J. B. 2436, 2439
Jessup, A. J. 2635
Jesus, M. de 891
Jewett, D. K. 1257
Jeyalakshmi, C. 808, 811
Jha, S. 2401
Ji, J. H. 622
Ji, J. M. 2142
Ji JiaMing 2142
Ji JinHong 622
Jian, H. 2641
Jian Heng 2641
Jiang, G. 1983
Jiang, J. Q. 2142
Jiang, J. X. 2088
Jiang, N. Q. 363, 1223
Jiang, S. R. 2327
Jiang, S. Z. 2142
Jiang, Y. 1854
Jiang, Y. L. 530, 1213
Jiang JieXian 2088
Jiang JiQing 2142
Jiang NanQing 363, 1223
Jiang ShuiZhen 2142
Jiang Shunan 556
Jiang ShuRen 2327
Jiang Yong 1854
Jiang YongLi 530, 1213
Jiannino, J. A. 1011
Jiao, Y. 2591
Jiao Yi 2591
Jijakli, M. H. 995
Jiménez, J. 1364
Jimenez, L. 2384
Jiménez, L. F. 2377
Jiménez, M. 2357
Jiménez-Díaz, R. M. 768, 1476
Jin, B. R. 2711
Jiro, I. 1682
Jochensen, P. 1198
Joern, A. 1003
Johnner, A. 2650
Johnson, C. 1019
Johnson, D. M. 413
Johnson, D. R. 273
Johnson, D. T. 520
Johnson, J. B. 725
Johnson, K. B. 190
Johnson, K. N. 1856
Johnson, M. 2647
Johnson, M. W. 1616
Johnson, S. J. 790, 887, 2171
Johnsson, L. 35, 728
Johnston, R. H. 32
Jonathan, E. I. 2401
Jones, C. J. 1021
Jones, H. D. 598
Jones, J. B. 981
Jones, K. A. 2328
Jones, T. H. 529, 1278
Jones, V. P. 1618
Jones, W. A. 548, 760, 1915, 2338, 2631
Jong, M. D. de 2469
Jonsson, N. 997
Jordan, T. 2347
Joseph, R. 2576
Josephrajikumar, A. 555
Joshi, K. C. 957
Joshi, S. 384, 777, 2588, 2695
Journal of Invertebrate Pathology 1928-1929, 2044
Jowett, G. 1730
Jowett, J. 1730
Joyce, A. L. 2660
Joyce, S. A. 2752
Jubina, P. A. 323
Jubinsky, G. P. 2503, 2505
Jugnu Antharia 1619
Julien, M. H. 386, 1081
Junge, H. 2188, 2757
Junior, P. K. 896
Junior M., A. 749
Jura, W. G. Z. O. 1758
Jurjević, Ž. 1560
Jyothi, H. K. 2417
Kabičec, J. 1249
Kaczorowski, G. 2732
Kádár, F. 1571
Kadir, H. A. 1233
Kadir, H. B. A. 2203
Kadono-Okuda, K. 630
Kainoh, Y. 1286, 2004
Kairu, E. 2002
Kaiser, L. 581, 1985
Kaitaniemi, P. 1666, 2055
Kakimoto, K. 1157, 1356
Kakoti, R. K. 1344
Kakouli-Duarte, T. 2656
Kala, M. K. 1014
Kalha, C. S. 117
Kalia, S. 957
Kalita, D. N. 137
Kalmakoff, J. 2029
Kalmes, R. 2581
Kalushkov, P. 676
Kamal, M. M. 188
Kamala Nayar 29
Kambhampati, S. 1432, 2031
Kamble, S. T. 2442
Kamdi, R. 384
Kaniwada, H. 1157, 1356
Kan, F. J. P. M. van 2720
Kan, J. van 2790
Kanagaratnam, P. 336
Kanauija, K. R. 1160
Kanchan Saikia 1633
Kandalkar, H. G. 42, 72, 1620
Kang, S. C. 2045
Kang, S. H. 2214
Kang, S. K. 1325, 2711
Kang SangHun 2214
Kang SeokKwon 335, 1325
Kang SunChul 2045
Kanjnamaneesathian, M. 34
Kannan, C. 2182
Kannan, S. 1926, 2603
Kao, S. S. 106, 1234, 1830

- Kao SueySheng 106, 1234
 Kapama, J. T. 1634
 Kapat, A. 65, 1401, 1479
 Kapatos, E. T. 918
 Kaplan, H. 1304
 Karaca, İ. 1609
 Karaca, I. 883
 Karaman, G. 544
 Karban, R. 1564
 Karim, S. 2619
 Karjalainen, R. 696
 Karnowski, W. 1703
 Kams, J. S. 1554
 Karthikeyan, K. 994
 Karunaratne, A. 193
 Kashefi, J. 2478
 Kashefi, J. M. 1070
 Kashima, T. 823
 Kassemeyer, H. H. 166
 Katayama, J. 2213
 Kathirithamby, J. 230, 233
 Katsoyannos, P. 1321, 1612
 Katti, G. 1127-1128
 Katundu, J. M. 1634
 Katz, H. 192
 Katzner, T. E. 1246
 Kaufman, D. 862
 Kaul, B. K. 747
 Kaupp, W. J. 280, 1857
 Kaur, S. 229, 1637
 Kausar Malik 2619
 Kawaguchi, M. 1435, 2611
 Kawakubo, Y. 94
 Kawanami, M. 1557
 Kawarabata, T. 1539
 Kawashima, T. 991
 Kawazoe, E. A. 1899
 Kawchuk, L. M. 1908
 Kay, B. H. 1006
 Kaya, H. K. 795, 1331, 1390, 2640, 2647, 2786
 Kazak, C. 1937
 Keane, P. J. 165, 915
 Kearns, L. P. 164
 Keating, K. I. 2498
 Kecskés, M. 517, 842, 1096
 Keddie, A. 1442
 Keddie, B. A. 1981
 Keel, C. 128
 Keen, N. T. 2795
 Keil, S. 182
 Keinath, A. P. 97
 Keller, B. 2252
 Keller, M. A. 589, 2664, 2668
 Kelly, D. 432
 Kelly, S. E. 1927
 Kelly, T. J. 1306
 Kempenaar, C. 2466
 Kendra, K. V. 1795
 Kenerley, C. M. 1650
 Kenis, M. 2371
 Kennedy, G. G. 92
 Keren-Tzur, M. 192
 Kerguelen, V. 584
 Kerimova, I. G. G. 757
 Kermasha, S. 1300
 Kerry, B. R. 1385, 1387
 Kersting, U. 1610
 Keskinen, M. 18
 Ketelaars, T. A. C. M. 2243
 Ketoja, E. 18
 Ketunuti, U. 2328
 Khaderkhan, H. 1542
 Khafagi, W. E. 463, 1165, 2704
 Khaire, V. M. 2281
 Khairuzzaman, A. S. M. 27
 Khan, A. 277, 2655
 Khan, A. R. 1002
 Khan, H. K. 1505
 Khan, M. A. 504, 509, 1637
 Khan, M. I. 33, 72
 Khan, M. R. 2211
 Khan, S. 1190
 Khan, S. H. 1512
 Khan, Z. 152
 Kharboulit, M. S. 942
 Kharchenko, G. L. 837, 1562
 Kharchenko, S. M. 2418
 Khmel, I. A. 125, 161
 Khorkhordin, E. G. 719
 Khound, J. N. 137
 Kidd, N. A. C. 232, 873, 2296
 Kieckhefer, R. W. 2143
 Kielti, J. P. 1414
 Kijima, T. 132
 Kikuchi, O. 1092
 Kikuchi, Y. 850
 Kilian, M. 2103
 Killer, E. E. 2274
 Kiloczyski, P. Ja. 362
 Kim, B. S. 403
 Kim, D. A. 2255
 Kim, D. G. 2572, 2639
 Kim, D. I. 1536
 Kim, G. H. 1828
 Kim, H. H. 2786
 Kim, H. S. 335, 1325
 Kim, H. T. 393
 Kim, J. H. 2620
 Kim, J. W. 1903
 Kim, K. H. 1557
 Kim, S. D. 2166
 Kim, T. H. 674
 Kim, Y. H. 2620
 Kim, Y. J. 1828
 Kim ByungSup 403
 Kim Dolk 1536
 Kim DongAh 2255
 Kim DongGeun 2572, 2639
 Kim GilHa 1828
 Kim HeungTae 393
 Kim HoSan 1325
 Kim HyeonHwan 2786
 Kim JeongHwan 2620
 Kim JinWoo 1903
 Kim KyuChin 947
 Kim KyungHee 1557
 Kim SangDal 2166
 Kim TaeHeung 674
 Kim YongHeon 2620
 Kim YoungJoon 1828
 Kimati, H. 2264
 Kimpinski, J. 87
 Kindler, S. D. 2649, 2670
 Kindlmann, P. 559, 1947, 2702
 King, E. G. 461, 482, 488, 496, 514, 1123, 1845, 1871
 King, W. J. 2328
 Kinjo, K. 1320
 Kinoshita, M. 2389
 Kinoshita, T. 1520
 Kinuura, H. 2344
 Kioka, Y. 115, 1519
 Kirchheiner, K. 2447
 Kirichenko, I. O. 2418
 Kirk, A. A. 1507, 2554
 Kirkpatrick, B. A. 623
 Kirshner, B. 1401, 1511
 Kishida, K. T. 710
 Kishore, R. 1491
 Kiss, B. 1218
 Kiss, L. 1788
 Kitamura, K. 527
 Kitahawee, S. 2035
 Kkolosy, A. S. 2479
 Kleespies, R. G. 1953
 Kleijn, P. W. 2006
 Klein, D. 1744
 Klein, J. M. 1740
 Klein, M. 1371
 Klein, M. G. 2542
 Klemola, T. 2055
 Klier, A. 661
 Klingens, I. 2765
 Klopper, J. W. 1346
 Klonsky, K. 1583
 Klukowski, Z. 2298
 Knaflowski, M. 2197
 Knight, A. L. 872
 Knight, J. W. 2432
 Knight, K. J. 529
 Knight, R., Jr. 175
 Nighten, K. 249
 Knipping, E. F. 672, 1373
 Knoblett, J. 1001
 Knowles, B. 1314
 Knox, M. 1031
 Knutson, A. E. 2342
 Knutson, L. 409, 1798
 Kobayashi, C. 1652
 Kobayashi, H. 822, 1143
 Kobayashi, K. 80
 Kobayashi, Y. 791, 1496
 Kobzarova, V. S. 815
 Kocan, K. M. 1038, 1771
 Koch, E. 1400, 1559
 Koch, S. D. 206
 Koeh, D. K. 373
 Koedam, N. 766, 1514
 Koehler, P. G. 649
 Köhl, J. 305, 706, 1418, 1523
 Kohno, K. 1204
 Koike, A. 173
 Koiso, Y. 817
 Kok, L. T. 6, 798, 1547, 1982, 2473
 Kolarov, J. 2749
 Kolle, C. 2206
 Kolluru, G. R. 1283
 Kolstø, A. B. 611
 Konar, A. 1596
 Kondorosy, E. 17
 Kong, J. A. 1339
 Kong JiAn 1339
 Koning, G. 1523
 Konno, Y. 1094
 Kono, Y. 791, 1496
 Kontodimas, D. C. 1612
 Koo, S. J. 393
 Koo SukJin 393
 Koppenhöfer, A. M. 1390, 2640, 2647
 Korolev, N. 2601
 Kosaka, Y. 2198
 Koshy, G. 1824
 Koskela, G. 862
 Koskula, H. 675
 Kosugi, Y. 1144
 Kotulai, J. R. 1233
 Koulova, S. 2395
 Koutecká, J. 806
 Koutinkova, H. 547
 Ková, M. 451
 Kovačević, V. 1404
 Kovalisik, J. 343
 Koveos, D. S. 1489
 Kozioł, M. 972
 Kraaijeveld, A. R. 1977, 2001, 2741
 Krafur, E. S. 1917
 Kraglund, H. O. 374
 Kral, K. 626
 Krasnoff, S. B. 2773
 Krasomil-Osterfeld, K. 1150
 Krauss, U. 197
 Krauter, P. C. 267, 2341
 Krebs, B. 219, 2757
 Kreiter, P. 176, 884
 Kreiter, S. 179, 1124
 Kretschmar, A. 844
 Kring, T. J. 541, 660, 2330, 2536
 Krips, O. E. 1269, 2006
 Krishanu Mukherjee 114
 Krishnaiah, N. V. 1127-1128
 Krishnamoorthy, A. 877-878, 899-900, 1506, 1529, 1607, 2109, 2219, 2271-2272, 2282
 Krishnamurthy, J. 2123
 Krishnamurthy, K. 732, 1427
 Krishnan, S. 410
 Krishnappa, M. 26
 Kristiansen, H. L. 2447
 Król, E. 1552
 Kroon, B. 128
 Krooss, S. 49
 Kroschel, J. 402
 Kruse, J. J. 954
 Ku, S. C. 1702
 Ku ShiuChih 1702
 Kübart, S. 2757
 Kubicek, C. P. 697-698
 Kubo, K. 1338
 Kubo, Y. 2198
 Kudō, K. 1267
 Kuhlmann, U. 9, 851
 Kühne, S. 1155
 Kukan, B. 1671
 Kukul, C. 610
 Kulkarni, G. G. 2248
 Kulkarni, J. H. 2763
 Kulkarni, K. A. 1126, 1378, 2248, 2605
 Kulkarni, U. S. 1923
 Kumagai, C. 659
 Kumar, A. 1751
 Kumar, B. S. D. 2314
 Kumar, J. 2126
 Kumar, M. G. 52
 Kumar, M. V. V. 2116
 Kumar, N. K. K. 668, 1291, 2219
 Kumar, N. S. 616
 Kumar, P. S. 308, 2637
 Kumar, R. 286
 Kumar, S. 23, 277, 747, 775, 2348, 2789
 Kumar, S. S. R. 2248
 Kumar, V. 840
 Kunimi, Y. 552, 638, 1217, 1933, 2613, 2678
 Kunthala Jayaraman 1139
 Kurosawa, H. 294
 Kurup, N. K. 1632, 2606
 Kurzawińska, H. 1699
 Kushnak, G. D. 726
 Kusigemati, K. 1157, 1356
 Kusonwiriawong, C. 34
 Kutcher, H. R. 2468
 Kutinkova, H. 1561
 Kutish, G. F. 2714
 Kuttalaraman, S. 1741
 Kuznetsov, V. N. 1314
 Kvaløy, K. 611
 Květ, J. 2484
 Kwak, J. S. 674
 Kwak JoonSoo 674
 Kwaśna, H. 2361
 Kwon, G. M. 1191
 Kwon GiMyon 1191
 Kyei-Poku, G. K. 1217, 1933
 Łabanowski, G. 1703
 Lacey, L. A. 533, 703, 875, 1507, 1567, 1872, 2542, 2554
 Laffi, F. 870
 Lagnaoui, A. 334
 Lagoke, S. T. O. 2512
 Laha, G. S. 1651
 Lahoz, E. 2313
 Lai, C. Q. 885
 Lai ChengQing 885
 Laich, F. S. 120
 Lakhnail, G. C. 227, 234, 236
 Łakomy, P. 278
 Lakshmanan, V. 2291
 Lakshmi, K. A. 1781
 Lakshmi, V. J. 1127-1128
 Lakshminarayana, K. 1343
 Lalithakumari, D. 443
 Lam, W. K. F. 770
 Lamana, M. L. 540
 Lamb, C. 714
 Lamb, M. A. 2624
 Lambin, M. 2014
 Lamers, J. G. 784
 Lamza, K. A. 302
 Lan, H. X. 1129
 Lan HongXia 1129
 Landa, B. 768, 1476
 Landgraf, B. S. 909
 Landis, D. A. 1452, 2147
 Lane, S. D. 1980
 Lang, A. 754
 Lang, J. H. 1350
 Lang, R. F. 405
 Lang JiHua 1350
 Lange, C. E. 669
 Langenbruch, G. A. 943, 2252
 Langenstück, C. 1450
 Langewald, J. 571, 1847, 2772
 Langor, D. W. 300
 Lannic, J. le 2648
 Lanteri, A. A. 721
 Lanzrein, B. 619, 2042, 2650, 2726
 Laojana Chowanadisai 1013
 Lapchin, L. 604
 Laprade, S. 2270
 Lara, M. P. 1384
 Larkin, R. P. 112, 126, 131, 807
 Laroche, F. 2494
 Larsen, A. K. 141
 Larsen, M. 374, 377, 1032, 1048, 1050, 2446-2448, 2450

- LaSalle, J. 506, 1614
 LaSalle, J. 2284
 LaSalle, J. 2731
 Lashomb, J. H. 2026
 Lassen, K. 2447
 Latha, N. A. 1107
 Latimer, K. J. 1804
 Lattin, J. D. 2370
 Laugé, G. 2040
 Laughlin, R. 535
 Lauren, D. R. 658
 Laurent, P. 2562
 Lawrence, P. O. 1158
 Lawrie, A. C. 400
 Lawrie, J. 1079, 2490
 Lawson, A. B. 287
 Laxmi, V. D. V. 67
 Layton, M. B. 273, 2336
 Le Lannic, J. 2648
 Le Roux, A. M. 2202
 Le Roux, G. 2202
 Le Rü, B. 788, 2018
 Lea, D. 937
 Leather, S. R. 11, 1358, 1688
 Lecadet, M. M. 611, 2562, 2712
 Lecheva, I. 683, 2245
 Leclerc, T. L. 301
 Lecuona, R. E. 1018, 1770
 Ledee, S. 633
 Lee, B. Y. 2364
 Lee, C. Y. 2363
 Lee, D. G. 2045
 Lee, D. H. 2255
 Lee, D. W. 335, 1325, 1390, 2786
 Lee, G. H. 2556
 Lee, G. S. 2620
 Lee, H. L. 1743
 Lee, H. S. 1828
 Lee, J. C. 2147
 Lee, J. H. 2143, 2583, 2649
 Lee, J. J. 2556
 Lee, J. K. 478, 2572, 2639
 Lee, J. M. 2166
 Lee, J. O. 2620, 2781
 Lee, L. L. 476, 2332
 Lee, M. D. 215
 Lee, R. 2378
 Lee, S. G. 2363, 2781
 Lee, S. H. 2639
 Lee, S. M. 2363, 2786
 Lee, S. T. 2079
 Lee, S. W. 1191, 1828, 2255
 Lee, Y. H. 322
 Lee, Y. I. 1191
 Lee, Y. K. 2572, 2639
 Lee, Y. S. 403
 Lee BuomYoung 2364
 Lee ChanYoung 2363
 Lee DaeWon 1325
 Lee DongGyu 2045
 Lee DongHyuk 2255
 Lee DongWoon 2786
 Lee GeonHui 2556
 Lee GwanSeok 2620
 Lee HoBeom 947
 Lee HoiSeon 1828
 Lee JaeKook 478, 2572, 2639
 Lee JangHoon 2143, 2583
 Lee JeangOon 2620
 Lee JongJin 2556
 Lee JungMok 2166
 Lee SangGil 2363
 Lee SangMeong 2363
 Lee SangMyeong 2786
 Lee ShuTseng 2079
 Lee SoonWon 1191, 1828, 2255
 Lee SuHeon 2639
 Lee YongHwan 322
 Lee YoungJin 1191
 Lee YoungKee 2572, 2639
 Lee YounSu 403
 Leen, R. 1067
 Legallet, B. 1108
 Legaspi, B. C., Jr. 482
 Legaspi, J. C. 2283
 Léger, A. 140
 Leger, R. J. S. 2027
 Leguizamón, J. E. 247
 Lehane, R. 882
 Lei, G. C. 634, 1287
 Lei GuangChun 634, 1287
 Leibee, G. L. 1322
 Leifert, C. 302
 Leistritz, F. L. 2491
 Leitch, J. A. 2491
 Leite, G. L. D. 830, 2526
 Lemanceau, P. 1517
 Lemanova, N. B. 125, 161
 Lennartz, B. 836, 2125
 Lenné, J. M. 560, 2798
 Lenteren, J. C. van 492, 708, 716, 2015, 2075, 2690
 Lepoivre, P. 995
 Leporini, C. 2066
 Léry, X. 614
 Leslie, A. J. 2503
 Lester, P. J. 1569
 Letchoumananc, S. 748
 Lethmayer, C. 2597
 Levi, T. 1401
 Levine, A. 1401
 Lewis, J. A. 112, 127, 691, 807, 1477
 Lewis, J. M. 2490
 Lewis, L. C. 1438, 1443
 Lewis, W. J. 263, 583, 2672
 Lezama-Gutiérrez, R. 2145
 Li, A. H. 1838
 Li, C. B. 613
 Li, D. B. 722-723, 2072
 Li, D. M. 2036
 Li, D. Q. 1996
 Li, D. S. 489
 Li, H. 302
 Li, H. G. 1131
 Li, H. L. 252
 Li, L. C. 894
 Li, L. Y. 1880, 2628
 Li, N. C. 646, 1380
 Li, Q. J. 562
 Li, Q. Q. 28
 Li, Q. T. 1550
 Li, S. G. 2533, 2689
 Li, S. Y. 342, 2081, 2249, 2258, 2546, 2767
 Li, S. Z. 250
 Li, W. C. 2118
 Li, W. F. 455
 Li, Y. H. 1056
 Li, Z. 2310
 Li, Z. H. 524, 1958
 Li, Z. W. 455
 Li, Z. Z. 646, 1220, 1380, 1667, 2064
 Li AiHua 1838
 Li ChongBi 613
 Li DaiQin 1996
 Li DeBao 722-723, 2072
 Li DongMei 2036
 Li DunSong 489
 Li Hong 302
 Li HongLian 252
 Li HuoGou 1131
 Li LianChang 894
 Li LiYing 1880, 2628
 Li NongChang 646, 1380
 Li QingTian 1550
 Li QiQin 28
 Li QuiJian 562
 Li SheZeng 250
 Li ShiGong 2533, 2689
 Li ShuYang 342
 Li WenCai 2118
 Li WenFang 455
 Li YangHan 1056
 Li ZengZhi 646, 1220, 1380, 1667, 2064
 Li ZhaoHui 1958
 Li ZhiJun 357
 Li Zhong 2310
 Li ZhongWu 455
 Li Zuohu 524
 Liang, D. R. 472, 1365
 Liang, G. W. 2088
 Liang, H. B. 46
 Liang, S. P. 472, 1365
 Liang DongRui 472, 1365
 Liang GuangWen 2088
 Liang HongBin 46
 Liang ShiPing 472, 1365
 Liao, L. J. 1382
 Liao LingJie 1382
 Libersat, F. 1782
 Licastro, K. A. 147, 499
 Lieber, K. 1728
 Liebhold, A. M. 279
 Liebig, H. P. 1538
 Liebman, M. 89
 Lieten, F. 187
 Lietti, M. 2183
 Lighthart, B. 1913
 Liguori, M. 2205, 2254
 Liljesthröm, G. G. 2259
 Lill, J. T. 1685
 Lim, H. S. 2166
 Lim, S. E. 2214
 Lim HoSeong 2166
 Lim SeongEon 2214
 Lima, A. R. 2047
 Lima, G. 216, 328
 Lima, L. H. C. 2037
 Limburg, D. D. 1656
 Limón, M. C. 2071
 Lin, F. C. 722, 2072, 2212
 Lin, H. F. 1220, 1667, 1850
 Lin, H. T. 1866
 Lin, J. X. 1613
 Lin, J. Z. 325
 Lin, N. Q. 1866
 Lin, Q. O. 298
 Lin, Q. Y. 1662
 Lin, T. P. 295
 Lin, W. C. 450, 1130
 Lin, W. G. 973
 Lin, W. H. 1854
 Lin, W. T. 722
 Lin, X. W. 453
 Lin, Y. Y. 215
 Lin FuCheng 722, 2072, 2212
 Lin HuaFeng 1220, 1667, 1850
 Lin HuiTeng 1866
 Lin JiangXing 1613
 Lin JianZhen 325
 Lin NaiQuan 1866
 Lin QiaOe 298
 Lin QinYuan 1662
 Lin TsanPiao 295
 Lin WanGuang 973
 Lin WeiTing 722
 Lin WenCai 450, 1130
 Lin WenHao 1854
 Lin XiangWen 453
 Lind, P. 1332, 1704
 Linden, A. van der 820
 Lindsay, A. M. 2493
 Lingaiah, T. 1127
 Lingappa, S. 667, 1126, 2337, 2671
 Lingaraju, S. 2182
 Lingeman, R. 2262
 Linhares, A. X. 2445
 Linmamäki, M. 986
 Liou, J. Y. 2568
 Lipa, J. J. 1077
 Lipasova, V. A. 125, 161
 Lišková, M. 2751
 Littlefield, J. L. 2478
 Littlefield, L. J. 395
 Liu, A. Z. 2533, 2689
 Liu, B. L. 1164
 Liu, B. Y. 1550
 Liu, C. L. 640, 1984
 Liu, E. Y. 1735
 Liu, F. 1111
 Liu, F. Q. 25, 730
 Liu, G. L. 1958
 Liu, H. X. 1394
 Liu, J. F. 489
 Liu, J. H. 1074
 Liu, L. 298
 Liu, L. X. 1463
 Liu, N. X. 562
 Liu, Q. G. 2310
 Liu, Q. Y. 325
 Liu, S. S. 100, 450, 1112, 1284, 1293, 1924-1925, 2626, 2769
 Liu, W. H. 1156, 1613, 1880
 Liu, X. D. 885, 1814
 Liu, X. L. 562, 622
 Liu, X. P. 358
 Liu, X. Q. 894
 Liu, X. Z. 77
 Liu, Y. 924, 2012
 Liu, Y. C. 1544
 Liu, Y. F. 217, 2120
 Liu, Y. Q. 1925
 Liu, Y. X. 1955
 Liu, Z. C. 489
 Liu, Z. Q. 2607
 Liu, Z. Z. 250
 Liu AiZhi 2533, 2689
 Liu BaoYu 1550
 Liu BingLan 1164
 Liu CaiLing 640, 1984
 Liu EYing 1735
 Liu Feng 1111
 Liu FengQuan 25, 730
 Liu GuiLin 1958
 Liu HongXia 1394
 Liu JianFeng 489
 Liu JianHong 1074
 Liu Li 298
 Liu NanXin 562
 Liu QiaoYun 325
 Liu QiongGuang 2310
 Liu ShuSheng 100, 450, 1112, 1284, 1293, 1924-1925, 1978, 2626, 2769
 Liu SiWen 2146
 Liu WenHui 1613
 Liu WenHui 1880
 Liu XianDe 1814
 Liu XiangPing 358
 Liu XianQian 894
 Liu XiDie 885
 Liu XingZhong 77
 Liu XiuLine 562
 Liu XunLi 622
 Liu Yi 924
 Liu YinQuan 1925
 Liu Yong 2012
 Liu YongFeng 2120
 Liu YuChang 1544
 Liu YuFang 217
 Liu YunXia 1955
 Liu YuXia 2146
 Liu ZengZhi 250
 Liu ZhiCheng 489
 Liu ZhiQiang 2607
 Lizzio, S. 1601
 Ljubenova, E. 91
 Llácer, E. 1173, 1229, 1231, 1960
 Llanes, G. 1870
 Llerandi-Juárez, R. D. 375
 Lloret, P. 854
 Lo, C. F. 2564
 Lo, C. T. 2761
 Lo, P. L. 886
 Lo ChaurTsuen 2761
 Lo ChuFang 2564
 lo Verde, G. 1599
 lo Verde, V. 1599
 Lobanok, A. G. 815
 Lobatón, C. S. 1230, 1384
 Lobinger, G. 2685
 Loch, L. C. 1973
 Lodge, D. M. 437
 Loeb, M. J. 497
 Loganathan, M. 764
 Lognay, G. 1264
 Lohr, B. 1209
 Lohr, B. 2307
 Lohrke, S. 652
 Loíacono, M. S. 721, 772
 Loker, E. S. 373, 2426
 Lomer, C. 2772
 Lomer, C. J. 1879
 Long, A. 1007
 Long, D. W. 86
 Long, H. R. 309, 2575
 Long, J. L. 2336
 Long, P. G. 116
 Long, R. F. 714
 Long HouRu 309, 2575
 Longley, M. 1832
 Longo, S. 1601, 1611
 Lonsdale, W. M. 425-426, 1066
 Loomans, A. J. M. 708
 Loon, L. C. van 1340, 1495
 Looy, L. van 1537
 Loper, J. E. 2760
 Lopes, C. A. 2186

- Lopes, J. 2304
 Lopes, R. B. 928
 López, J. C. 932
 López, M. 953, 1419, 1615, 2548
 López, M. M. 2288
 López, M. O. 2782
 López, M. P. L. 1230
 López-Arroyo, J. I. 1918
 López-Ávila, A. 2677
 López-Edwards, M. 2145
 López Ferber, M. 2750
 Lopez-Llorca, L. V. 1159
 Lord, J. 1101
 Lord, J. C. 709
 Lorenz, G. M. 273
 Losey, J. E. 572, 636, 1469
 Louda, S. M. 420
 Louis, F. 2256
 Lounibos, L. P. 352
 Lövei, G. L. 1571
 Lövgren, A. 611
 Lowrie, R. C., Jr. 2428
 Lozano, C. 2544
 Lu, D. Q. 2230
 Lu, F. 31, 2120
 Lu, G. 442
 Lu, G. D. 194
 Lu, G. T. 28
 Lu, Y. Y. 2324
 Lu, Z. 2714
 Lu, Z. X. 519, 2534
 Lu Fan 31, 2120
 Lu Gan 442
 Lu GuangTao 28
 Lu GuoDong 194
 Lu YongYue 2324
 Lu ZhongXian 519, 2534
 Lubulwa, G. 10
 Lucarotti, C. J. 301
 Luck, R. F. 208, 1983
 Luckock, P. R. 1265
 Luckskai, A. 1199, 1371
 Ludwig, S. W. 6
 Lugtenberg, B. J. J. 128
 Luh, H. K. 2697
 Luhring, K. A. 354
 Lui, S. S. 1978
 Lumsden, R. D. 127, 691, 1477, 2483
 Lunau, S. 1150
 Lundvall, P. 1679
 Luo, B. Q. 2120
 Luo, K. 1861
 Luo, Q. H. 1595
 Luo, Q. R. 1695
 Luo, Z. J. 973
 Luo BingQian 2120
 Luo Kuan 1861
 Luo QiHao 1595
 Luo QunRong 1695
 Luo ZhengJun 973
 Luque Z., J. E. 2301
 Luster, D. G. 395
 Lüth, P. 2196
 Lutton, G. G. 1368
 Luttrell, R. G. 249
 Luz, C. 371, 1041, 1769-1770, 1773, 1778, 2438
 Luz, W. C. da 20, 2127
 Lyla, K. R. 2776
 Lynch, R. 2092
 Lynn, D. E. 1334, 1881
 Lyon, G. D. 783
 Lyon, S. M. 370
 Lyr, H. 2791
 Lysyk, T. J. 364
 Ma, J. 309
 Ma, P. 250
 Ma, Q. S. 28
 Ma, S. 1380
 Ma, Z. C. 2072
 Ma Feng 1394
 Ma Jiang 309
 Ma Ping 250
 Ma QingSheng 28
 Ma Sheng'an 1380
 Ma ZhiChao 2072
 Mabbett, T. 1644
 McAvoy, T. J. 1982
 McCarthy, J. 237
 McClay, A. 1796
 McClay, A. S. 2478
 McClure, M. S. 974, 1914
 McClure, N. C. 220
 McCoy, C. W. 466
 McCoy, K. D. 2511
 McCullough, D. G. 2356
 McElfresh, J. S. 627
 McElrea, G. 1730
 McEvoy, P. B. 2489
 McEwen, P. 8
 McEwen, P. K. 232
 McFadyen, R. E. 419, 1805
 McGregor, R. 970, 1261
 McGriff, D. E. 2340
 McGuire, M. R. 1349
 McGuire, R. G. 1589
 Machowicz-Stefaniak, Z. 1551
 Maciel, S. 1026
 Mackauer, M. 1004, 1943, 2031, 2657, 2696
 Mackay, A. I. 541
 Mackay, N. 1526
 McKenzie, J. R. 2493
 MacLauchlan, L. E. 971
 McManus, M. L. 969, 1683, 2000
 McMeniman, S. 10
 Macnab, A. M. 1995
 McNew, R. W. 266, 941
 McPherson, R. M. 258, 2627
 McQuilken, M. P. 239
 McRae, C. 275
 Maddox, J. V. 539, 2000
 Madeira, N. G. 1020
 Madhulika Nigam 879
 Madsen, A. D. 141
 Madsen, A. M. 2128
 Madsen, C. H. 2128
 Madulu, J. 1386
 Maeda, T. 1274
 Magalhães, B. P. 1640, 1778
 Magan, N. 618, 1147, 1151, 2241
 Magó, I. 451
 Magyar, K. 842
 Mahadevan, N. R. 1376, 2516
 Mahalakshmi, R. 1431
 Mahanty, H. K. 164
 Mahapatro, G. K. 2667
 Mahaut, T. 444, 1116
 Mahillon, J. 611
 Mahmood, F. 350
 Mahmood, I. 2785
 Mahmood, K. 1939
 Mahommed, F. 1052
 Mahr, F. A. 2480
 Maia, L. C. 2063
 Mair, J. 2090
 Maisonhaute, C. 2040
 Maisonneuve, J. C. 107
 Majerus, M. E. N. 1005, 1314, 2692
 Majerus, T. M. O. 1005, 1314
 Makady, M. 544
 Makihara, H. 2344
 Makranczy, G. 1470
 Malaguido, A. B. 920
 Malarvizhi, V. 470
 Malausa, J. C. 2082
 Malavika Chaudhary 1801
 Maldonado, S. N. 2537
 Maldonado-Blanco, M. G. 1859
 Malham, J. P. 1972
 Malik, K. 2619
 Malik, V. S. 775
 Malinowski, H. 715
 Mallik, M. A. B. 431
 Malsam, O. 2103
 Mamadou, A. 2772
 Manczinger, L. 2759
 Mandal, S. 2131
 Mándoki, A. 451
 Mangali, T. 2308
 Mangoendiharjo, S. 2750
 Mani, M. 877-878, 900, 1506, 1529, 1607, 2109, 2219, 2271-2272, 2282
 Maniania, N. K. 367, 774, 1209, 1765, 2137, 2599
 Maniglia, G. 2059
 Maninder Shenhmar 412, 1374, 1631, 1794
 Manisegaran, S. 748
 Manjula, K. 1184, 2646
 Manjunatha, M. 2671
 Manly, B. F. J. 2729
 Manonmani, A. M. 1756
 Manrique-Saide, P. 361
 Manueli, P. R. 1029, 1052
 Mao, R. Q. 1457
 Mao, W. 127
 Mao RunQian 1457
 Maples, R. 254
 Maqbool, M. A. 645
 Maran, S. P. M. 491, 2043
 Marc, P. 162
 Marcano, D. A. de 1938
 Marcano A., J. 1938
 Marchay, L. 1324
 Marco, J. L. de 2037
 Marcos-García, M. A. 502
 Margalith, J. 2429
 Mariano, R. de L. R. 794, 911
 Mariappan, P. 1741
 Maribashetty, V. G. 1732
 Marimuthu, S. 1208
 Marina, C. F. 2423
 Marino, P. C. 1452
 Markham, R. H. 946, 2138, 2673
 Markin, G. P. 2485
 Markó, V. 1574
 Markova, E. 91
 Marley, P. S. 2512
 Marques, N. 743
 Márquez, M. E. 2584
 Marquis, R. J. 1675
 Marro, J. P. 884
 Marsden, D. 268
 Marten, G. G. 1006
 Marten, P. 2196
 Martignoni, M. E. 1674
 Martin, C. 135, 1533
 Martin, E. A. 352
 Martin, F. N. 2760
 Martín, P. 898
 Martin, P. A. W. 372, 1353-1354
 Martínez, A. M. 1433
 Martínez, B. 1628, 1645
 Martínez, G. 2375
 Martinez, M. 1797
 Martínez, M. de los A. 1647
 Martínez, M. L. 2782
 Martínez, T. 2420
 Martínez-Ramírez, A. C. 2600
 Martins-Corder, M. P. 653
 Martius, C. 1085
 Maruniak, J. E. 480
 Marvaldi, A. E. 721
 Maryana, N. 2614
 Marzagão, M. R. 1890
 Masarrat Haseeb 1590
 Mascarenhas, A. G. 2444
 Masih, I. 1556
 Masiuk, Yu. A. 1502
 Mason, J. M. 454, 474, 1508
 Mason, K. 324
 Mason, P. G. 9
 Massa, B. 1600
 Masuda, T. 1503
 Masum Ahmad 1277
 Masumura, H. 115
 Matalin, V. 1317
 Mateille, T. 2228-2229
 Mathai, S. 2177, 2329
 Mathal, S. 1591
 Mathew, K. A. 69
 Mathew, M. J. 1713, 2394, 2397-2398
 Mathivanan, N. 1345, 2540
 Mathre, D. E. 32, 2130
 Mathur, N. M. 1541
 Mathur, S. B. 1423
 Matioli, A. L. 1531
 Matoso, M. J. 1409
 Matrangolo, W. J. R. 891
 Matsui, M. 823
 Matsui, T. 1359, 1823
 Matsuki, T. 1057
 Matsumoto, N. 1
 Matsuoka, K. 2048
 Matsuyama, N. 1557
 Matthews, G. A. 454, 474, 1508
 Matthews, L. R. 344
 Matthews, R. W. 2780
 Mattioda, H. 1124
 Maugeri, V. 1611
 Maulden, K. A. 985
 Mauléon, H. 1324
 Maunuksla, L. 1341
 Maupin, J. L. 1285
 May, L. L. 2264
 Mayer, D. F. 761
 Mayhew, P. J. 1228
 Mayo, Z. B. 746
 Maywald, G. F. 2054
 Mazzanti de Castañón, M. A. 122
 Mazzon, L. 2351
 Mazzoni, E. 174
 Meade, T. 1330
 Meadow, R. 2200, 2765
 Medal, J. C. 1069
 Medeiros, M. A. de 772, 1825
 Medeiros, M. B. de 1154
 Medeiros, R. S. de 1905
 Medrano-Roldan, H. 1859
 Meekes, E. 1888
 Meel, R. van 1570
 Meer, M. M. M. van 1355
 Meers, J. 2415
 Megevand, B. 1492
 Mehrotra, N. K. 879
 Mehrotra, R. S. 731
 Mehta, P. K. 2173
 Meikle, W. G. 2138, 2673
 Meiracker, R. A. F. van den 2593
 Meisenbacher, C. 1664
 Mejías, A. 1364
 Melegari, A. L. 120
 Melgarejo, P. 111, 1518
 Melk, J. P. 2625
 Melki, K. C. 809
 Mellini, E. 1171
 Mello, R. P. de 1181
 Mello, S. C. M. 1058
 Melo, E. D. 891
 Melo, I. S. de 653
 Melo, R. 1202, 2652
 Men, U. B. 42, 72, 226, 1620, 2302-2303, 2399
 Menalled, F. D. 1452, 2147
 Mendes, J. 2445
 Méndez, A. 2301
 Mendoza, R. 2357
 Mendoza de Gives, P. 375, 379
 Menendez, A. 1528
 Menendez, A. B. 769
 Menezes, D. 794
 Menezes, E. 1161
 Meng, Q. L. 1461, 2007
 Meng, X. L. 472, 1365, 2769
 Meng QingLei 1461, 2007
 Meng XiaoLin 472, 2769
 Meng XiaoLin 1365
 Menn, J. J. 1395
 Mennan, H. 2456
 Mensah, R. K. 1655
 Mercadier, G. 1507
 Mertens, M. 136
 Mescher, M. C. 1280
 Meshkova, V. L. 948
 Meshram, S. U. 384
 Messelmani, B. 495
 Messina, F. J. 60, 63
 Messing, R. H. 543, 2698
 Mestdagh, I. 460
 Metlitski, O. Z. 161
 Mew, T. W. 19, 2129
 Meyer, G. de 2
 Meyer, R. 1749
 Meyer, S. L. F. 146
 Meyer, V. 619
 Meyer, W. L. 175
 Meyers, H. 273
 Meyhöfer, R. 580, 2021
 Meyran, J. C. 1007
 Mezencev, N. 107
 Mezzomo, J. A. 1904
 Mfugale, O. B. J. 797

- Michailides, T. J. 330
 Michalková, A. 1421
 Michalopoulos, G. 110
 Michelena, J. M. 643
 Michelsen, V. 2433
 Midgaard, F. 1445
 Miętkiewski, R. 1689
 Miętkiewski, R. T. 2519
 Migheli, Q. 980, 2373, 2754
 Migon, M. 858
 Miina, J. 291
 Mijares, A. S. 2420
 Mikhailova, R. V. 815
 Mikul'skaya, N. I. 919
 Milbrath, L. R. 1244
 Milevoj, L. 2086
 Millar, L. 1507, 2554
 Miller, D. L. 2000
 Miller, J. C. 540, 2653
 Miller, J. M. 1468
 Miller, P. C. H. 1102
 Miller, R. 1975
 Miller, T. 1975
 Mills, N. J. 851, 874, 1980
 Milne, R. 1304
 Milne, W. M. 2155
 Milner, R. J. 538, 1368, 1642
 Mineo, G. 1600
 Mineo, N. 1600
 Ming, G. Z. 1009
 Ming GuiZhen 1009
 Minks, A. K. 1087, 2800
 Minns, J. 180
 Minuto, A. 980
 Minuto, G. 980
 Minzenmayer, R. 264, 2339
 Minzenmayer, R. R. 2341
 Mirabzadeh, A. 2674
 Miranda, M. B. 1946
 Miranda, M. M. M. 830, 1196
 Mirchev, P. 1698
 Mironova, M. K. 719
 Mirto, L. 1709
 Misaghi, I. J. 251
 Mischke, S. 224, 1353-1354
 Mishra, B. K. 2604
 Mishra, D. S. 1447
 Mishra, Y. D. 346-347
 Mitchell, E. R. 800, 1498, 1504, 1862
 Mitchell, P. L. 2113
 Mitchell, R. 368
 Mitsuhashi, W. 612
 Mitter, E. 579
 Miya, M. 824, 850
 Miyasono, M. 659
 Mizell, R. F., III 662
 Mizota, K. 642
 Mizuki, E. 353, 2766
 Mizushima, S. 801
 Mizutani, N. 2175, 2613, 2678
 Mkoji, G. M. 373, 2426
 Mo, H. K. 2566
 Mo HyeKyong 2566
 Moar, W. J. 1099
 Mochizuki, N. 1883
 Moëgne-Loccoz, Y. 237, 429, 1301, 1629
 Mogi, M. 355
 Mohaghegh, J. 1256
 Mohamed, Z. K. 113
 Mohammad Hayat 513, 1176
 Mohan, C. M. 1781
 Mohana, D. 1878
 Mohandas, K. 955
 Mohandas, M. S. 835
 Mohite, P. B. 1654
 Moino, A., Jr. 928, 1105
 Molina-Ochoa, J. 2145
 Molina-Rugama, A. J. 1211, 1245, 1869
 Moline, H. 1554
 Moller, H. 1045
 Mónaco, C. I. 515
 Mondor, E. B. 596
 Monge, J. P. 1994
 Monino Junior, A. 749
 Monje, J. C. 1988
 Monobrullah, M. 1484
 Monsour, C. 1863
 Monsour, C. J. 733
 Montañez, M. L. 2301
 Monteiro, A. C. 1036, 1779
 Monteiro, S. G. 1774, 1783
 Monteny, N. 1337
 Montero, G. 2183
 Montgomery, M. E. 964
 Montoya R., E. C. 2320
 Montserrat, M. 139
 Moore, D. 2404
 Moorthy, P. N. K. 668, 1291
 Mora, J. V. 2317
 Moraes, A. C. S. 1649
 Moraes, A. M. L. de 2431
 Moraes, C. M. de 1280
 Moraes, G. J. 853
 Moraes, G. J. de 1193, 2383
 Moraes, I. O. 1875
 Moraes, R. R. de 480
 Morakote, R. 890
 Moral, J. del 1364
 Morales, M. 1938
 Morales, N. 2548
 Morales-Ramos, J. A. 482, 496, 514, 1871
 Moran, V. C. 407, 2482
 Moreira, L. A. 1211
 Moreno, I. P. 861
 Moreschi, I. 2091
 Morey, K. J. 42
 Morgan, D. J. W. 593, 1271
 Mori, K. 1961
 Mori, N. 1839
 Morisawa, T. A. 314
 Morjan, W. E. 1917
 Mornhinweg, D. W. 740, 2148
 Moroz, I. V. 815
 Morrill, W. L. 726
 Morris, O. N. 336
 Morris, T. 2544
 Morris, T. I. 232, 873, 2296
 Morrison, E. J. 759
 Morrison, K. D. 434
 Morrison, L. 1730
 Morrison, L. W. 1195, 1899
 Morrison, R. K. 488, 666
 Morse, J. G. 208
 Mortensen, K. 2468
 Mortensen, T. S. 2441
 Moscardi, F. 1415
 Moss, B. 1512
 Mosti, M. 717
 Motta Miranda, M. M. 1531
 Moura, A. B. 1515
 Mourad, A. K. 776, 859
 Mowafe, M. H. 2181
 Moyal, P. 1439
 Möykkynen, T. 291
 Mracek, Z. 559, 1947, 2395
 Mrinalini, C. 443
 Mrówczyński, M. 1403
 Mu, J. Y. 1253, 2012
 Mu, W. 1111
 Mu JiYuan 1253, 2012
 Mu Wei 1111
 Muckenfuss, A. E. 2113
 Mueller-Warrant, G. W. 756
 Muhammad Ashfaq 941
 Muhammad Aslam 1673
 Mukerji, K. G. 2796
 Mukherjee, K. 114
 Mukherjee, P. K. 2392, 2578
 Mulder, W. 2790
 Mullen, B. F. 1670
 Mullens, B. A. 354
 Müller, C. B. 71, 782, 1318, 2738
 Müller, W. 655
 Müller-Schärer, H. 390, 1580
 Müller-Stöver, D. 402, 2486
 Mumtaz Akhtar 1592
 Mungai, B. N. 373, 2426
 Muniappan, R. 1884
 Muñoz, D. 1296
 Munro, V. M. W. 845, 1416
 Munyaneza, J. 88
 Murata, H. 1710
 Murchie, A. K. 1623-1624
 Murillo, E. Y. 1777
 Murillo, J. 1077, 1319
 Murphy, B. C. 313-314, 709
 Murphy, J. F. 1346
 Murphy, S. T. 1088, 2094
 Murthy, N. B. K. 2392, 2578
 Murugesan, K. 470, 1345
 Murugesan, N. V. 1208
 Murugesan, S. 277
 Muthamilan, M. 1425
 Müther, J. 2247
 Muthukrishnan, N. 1659
 Muthukrishnan, R. 276
 Muthuswami, M. 994
 Muzquiz, M. 1701
 Mwageni, W. 1386
 Mwaiko, W. 2307
 Mwangi, R. W. 1758
 Myers, J. H. 1570, 1671
 Myles, T. G. 2058
 Naár, Z. 517, 1096
 Nachman, G. 1294
 Nádas, M. 1371
 Nagai, K. 1876, 2612
 Nagaki, A. 2344
 Naganagoud, A. 1378, 2605
 Nagaoka, H. 848
 Nagaraja, G. N. 1505, 1542
 Nagaraju, B. M. 2116
 Nagelkerke, C. J. 1251
 Nagesh, M. 149-151, 2116, 2222, 2225-2227, 2560
 Nageswari 2224
 Nagtzaam, M. P. M. 79, 130
 Nahrung, H. F. 415
 Naik, A. K. 979
 Naik, M. I. 2350
 Nair, G. M. 1591
 Nair, K. R. C. 1622
 Nair, K. S. S. 955
 Nakabayashi, K. 1519
 Nakahara, S. 199
 Nakai, M. 638, 2613
 Nakakita, H. 2412
 Nakamori, H. 2175
 Nakashima, N. 528
 Nakashima, Y. 551, 1288, 1539, 1876
 Nakat, R. V. 2401
 Nakata, T. 522
 Nakkeeran, S. 2123
 Nam, J. S. 2566
 Nam JinSik 2566
 Narnai, K. 132
 Nandakumar, C. 41
 Nannelli, R. 2254
 Nanmi, C. 1836
 Nansen, P. 374, 1048, 2446-2448, 2450
 Napompeth, B. 1670
 Nappi, A. J. 617
 Narabu, T. 2728
 Naranjo, S. E. 261, 1089, 1545
 Narayanan, K. 308, 1369
 Narayanan, M. 1741
 Narayanan, R. B. 1139
 Narayanan, R. J. 1012
 Narayanasamy, P. 40, 2134, 2140
 Narayanaswamy, H. 2549
 Narayanaswamy, N. T. 22
 Narayanaswamy, P. 1430
 Nardi, L. 2201
 Nardo, E. A. B. de 1614
 Narisawa, K. 793
 Nascimento, A. S. 891
 Nasser, M. 2590
 Natarajan, K. 204
 Nataraju, M. S. 1505, 1542
 Natiello, M. 1289
 Naughton, M. 1629
 Naumann-Etienne, K. 2748
 Navaro, G. 1777
 Navie, S. C. 419
 Nayagam, S. D. 238
 Nayar, J. K. 2432
 Nayar, K. 29
 Ndoutoume, A. 2581
 Nealis, V. G. 2359
 Nedvëd, O. 1323
 Neeta Sharma 879
 Neethling, D. C. 1366
 Negasi, A. 2596
 Negishi, H. 1057
 Nelson, T. L. 2112
 Németh, J. 1218
 Nénon, J. P. 2648
 Nenon, J. P. 788
 Nentwig, W. 404, 2739
 Nesar, S. 1082
 Neuvonen, S. 1679, 2358
 Neves, M. C. P. 1515
 Neves, P. J. 2517, 2615
 Newman, J. P. 314
 Newton-Howse, J. 1730
 Ngamsuk, W. 357
 Ngi-Song, A. J. 1189, 2592
 Nguyen, A. 627
 Nguyen Thi Yen 1006
 Ni, H. W. 2121
 Ni HanWen 2121
 Nicholas, A. H. 867
 Nico, A. I. 515
 Nicol, C. M. Y. 1943
 Nicol, H. I. 2520
 Nicolet, B. 1793
 Nicoletti, R. 2313
 Nielsen, B. O. 1015
 Nielsen, C. 2242
 Nielsen, M. N. 240
 Nielsen, P. S. 1723, 1935
 Nielsen, P. V. 996
 Nielsen-LeRoux, C. 2753
 Niemeyer, H. M. 590, 1315, 2703
 Niemi, G. J. 2047
 Nigam, M. 879
 Nilratana, L. 34
 Nilsson, U. 1852, 2539
 Nimomiya, S. 1068
 Ninq, S. S. 56
 Niranjana, S. R. 1423
 Nirmala, M. R. 1187, 2416
 Nisensohn, L. 2183
 Nishi, R. 1753
 Nishigaki, J. 447
 Nishino, S. 2220
 Nishino, T. 318
 Nitzsche, O. 2305
 Nitzsche, P. 2261
 Niu, S. G. 2327
 Niu, Y. Z. 960
 Niu ShanGuang 2327
 Niu YanZhang 960
 Noda, H. 528
 Noguchi, K. 115
 Nordlund, D. A. 253, 488, 1169, 2557
 Norton, A. P. 1563
 Notton, D. G. 838
 Nowierski, R. M. 1991
 Noya, F. 58
 Nuclio, R. L. 190
 Nurindah 2661-2662
 Nuss, D. L. 2707
 Nuti, M. P. 2066
 Nutsugah, S. K. 1494
 Nwanze, K. F. 735, 750
 Nwile, F. E. 735
 Nyrop, J. 180
 O. Almeida, D. de 1640
 Obendorf, D. 1729
 Oberhauser, K. S. 2623
 Obornik, M. 1888
 Obornik, M. 2062
 O'Brien, C. W. 408, 1065
 O'Bryan, P. D. 2432
 Obrycki, J. J. 75, 88, 660, 786, 1917, 2053, 2669
 Obst- und Weinbau 1091
 Obuchowicz, N. 1558
 Ocete, M. E. 898
 Ochiel, G. R. S. 511
 Ochoa, G. R. 2374
 O'Connor, B. 1629
 O'Connor, C. E. 344
 Odak, S. C. 53
 Odulaja, A. 1765, 2137
 Oduor, G. I. 2404
 Oedekoven, M. A. 1003
 Oerke, E. C. 836, 2125
 Offill, Y. A. 1011
 O'Gara, F. 237, 652, 1629, 2066
 Ogle, H. J. 1791
 Ogol, C. K. P. O. 1442

- Oh, B. Y. 478
 Oh, K. S. 478
 Oh ByungYoul 478
 Oh KyeongSeok 478
 O'Hara, J. E. 1887, 2249
 Ohara, S. 294
 Ohba, M. 353, 2766
 Ohmart, C. 1583
 Ohmor, T. 2386
 Ohnesorge, B. 1988
 Ohno, K. 2386, 2528, 2614, 2665
 Ohsaki, N. 36, 2610
 Ohta, M. 822, 1143
 Ohya, E. 2344
 Ojo, B. 1492
 Okada, G. 791
 Okajima, S. 564
 Okamoto, H. 816-817
 Okasha, S. A. 1737-1738
 Okazaki, K. 1566
 O'Keefe, J. 2414
 Okine, J. S. 800, 1498, 1504
 Okubo, T. 1708
 Okuda, T. 630
 Okuyama, S. 801
 Olckers, T. 1076, 2457
 O'Leary, P. F. 273
 Oleskevich, C. 399
 Olivain, C. 1517
 Oliveira, C. M. 1831
 Oliveira, E. D. M. 1486
 Oliveira, H. N. de 2651
 Oliveira, L. 1202, 2652
 Oliveira, M. L. R. de 1245
 Oliveira, N. T. 2063
 Oliveira, N. T. de 876, 881, 1586
 Oliveira, P. C. de 2425, 2431
 Olivella, E. 855
 Oliver, J. B. 269
 Oliver, J. H., Jr. 1025
 Ollevier, F. 734
 Olmedo, V. 1295
 Olson, D. M. 574
 Olson, S. M. 826
 Olszak, R. W. 1829
 Oma, E. 2714
 O'Malley, K. J. 1593
 Omar, J. 376
 Omar, S. A. 4
 O'Neill, K. M. 2025
 Ongena, M. 1514
 Onkarappa, T. 2311
 Onodera, K. 1405, 1635
 Onsager, J. A. 1110
 Onu, I. 774, 1209
 Onzo, A. 1492
 O'Regan, M. 2745
 Orion, T. 1969
 Ormord, A. M. 786, 2053
 Orozco, J. H. 1648
 Orozco H., J. 2319
 Orr, B. B. 262
 Orr, M. R. 1282
 Ortiz, D. A. 2359
 Ortiz, E. 944
 Ortiz, R. 2218
 Orts, R. 860, 1572
 Osborne, L. S. 703
 Ose, V. 681
 Osterfeld, K. H. 1150
 Osterlind, R. 1101
 Osuna, A. 2377
 Otieno, L. H. 1758
 Otieno, W. 245
 Otten, H. 1270
 Otto, D. J. 2624
 Otto, M. 1004
 Otvos, I. S. 971, 2081, 2546, 2767
 Ou, M. L. 1595
 Ou, W. M. 2106
 Ou, Y. W. 303
 Ou MeiLing 1595
 Ou WeiMing 2106
 Ouambama, Z. 1847, 2772
 Quédraogo, M. 1749
 Ounap, H. 2346
 Oussou, R. D. 2673
 Ouyang, Y. 892
 Ovcharenko, M. O. 561
 Overgaard Nielsen, B. 1015
 Overholt, W. A. 575, 1189, 2002, 2592
 Overmey, S. 629
 Ovruski, N. E. 1530
 Oyama, K. 101
 Ozawa, A. 822, 1093, 1143
 Özkan, A. 1840
 Özkan, C. 1971
 Özpinar, A. 2078
 Özrenk, K. 2459
 Paccola-Meirelles, L. D. 1833
 Pachamuthu, P. 2442
 Pacheco, D. J. P. 1205
 Pacheco, H. S. 2317
 Pacheco, R. P. 2420
 Padilha, T. 1030, 1051
 Padmanaban, B. 998
 Padmavathamma, K. 2646
 Padovan, I. P. 911
 Pagnotta, M. A. 1017
 Paiva, M. R. 2369
 Pajares, J. A. 1686
 Pakaluk, J. 1065
 Pal, V. 2068
 Palacios, F. 2782
 Pallini, A. 586
 Pallini Filho, A. 1531
 Pálmai, O. 1748
 Palmer, J. L. 360
 Palmer, R. W. 1762
 Palmer, W. A. 1064
 Pan, C. S. 1500
 Pan, J. M. 758
 Pan, S. 1348, 2579
 Pan CangSang 1500
 Pan JianMei 758
 Panda, S. K. 1447
 Pandey, N. K. 558
 Pandey, R. 2789
 Pandey, S. 1247, 2010
 Pandya, H. V. 243, 929
 Pang, A. S. D. 1931
 Pang, B. P. 48
 Pang, Y. 613
 Pang BaoPing 48
 Pang Yi 613
 Panizzi, A. R. 920, 1486
 Pankanin-Franczyk, M. 50
 Panneton, B. 1268
 Panter, M. J. 588
 Paosriwong, S. 357
 Papacek, D. 209
 Papadopoulos, A. P. 2210
 Paperna, I. 2744
 Parađiković, N. 1706-1707
 Parakhia, A. M. 1619
 Parashar, A. 117
 Parashar, R. D. 763
 Paravano, A. S. 2156
 Paré, J. 1084
 Parihar, S. B. S. 1491
 Park, B. K. 1903
 Park, C. S. 1903
 Park, H. S. 2781
 Park, H. W. 2711
 Park, J. D. 1536
 Park, S. G. 2045
 Park, S. J. 2363
 Park, S. S. 478
 Park, U. 1536
 Park, Y. S. 2364, 2766
 Park ByoungKeun 1903
 Park ChangSeuk 1903
 Park JongDae 1536
 Park SangGyu 2045
 Park SeungSoon 478
 Park SuckJoon 2363
 Park Ung 1536
 Park YoungSeuk 2364
 Parker, B. L. 2596
 Parker, P. E. 2269
 Parkinson, N. M. 1305
 Parnell, M. A. 2328
 Parra, J. R. P. 1222, 1874
 Parrella, M. P. 313-314
 Parthasarathy, R. 1430
 Pas, R. K. van der 2104
 Pascual, S. 111, 1518
 Pascuas, A. M. 2376
 Pasini, C. 1709
 Paslawar, A. N. 992
 Pasqualini, E. 2523
 Pasquier, D. 183-184
 Passos-Carvalho, P. 2304
 Pastucha, A. 2162
 Patange, N. R. 2333
 Patel, B. K. 320-321
 Patel, C. B. 243
 Patel, I. S. 2135
 Patel, J. R. 243
 Patel, K. K. 243
 Patel, M. B. 243
 Patel, P. N. 545
 Patel, P. S. 1160
 Patel, S. M. 320-321
 Pathak, J. J. 2323
 Pathak, S. C. 53
 Patil, R. P. 2763
 Patil, S. U. 2350
 Patt, J. M. 2026
 Patterson, R. S. 649
 Paul, B. 1556
 Paulitz, T. C. 1514, 1516
 Paulo Lemos, W. de 1905
 Paulson, G. S. 2251
 Pautou, M. P. 1007
 Pavlovskaya, Z. I. 815
 Pavuk, D. M. 1455
 Payne, C. C. 2203
 Paynter, Q. E. 2485
 Paysen, E. S. 2113
 Pearson, A. J. 344
 Pedersen, E. A. 1691
 Pedersen, H. C. 240
 Pedigo, L. P. 770
 Pedrol, R. 2584, 2709
 Pedrosa, J. H. 1069
 Peethambaran, C. K. 2177
 Pei, M. H. 1677
 Peixoto, C. do N. 911
 Pekár, S. 857, 1135, 1460, 1844
 Pell, J. K. 600, 1214, 1315, 2519, 2585
 Pellizzari, G. 966
 Pelosi, R. R. 2274
 Pemberton, R. W. 2506
 Pembroke, B. 809, 1388
 Peña, J. E. 2284
 Peñalver, R. 2288
 Peng, F. 2171
 Peng, J. X. 1382
 Peng, R. 908, 1212
 Peng, R. K. 2292
 Peng JianXin 1382
 Pengnoo, A. 34
 Penn, S. 666
 Pennacchio, F. 577, 1250, 2178, 2367
 Penteado, S. 2094
 Péntzes, B. 831
 Perchat, S. 860, 1853
 Pereira, J. C. R. 2048
 Pereira, P. 1726
 Pérez, L. G. 2782
 Pérez, M. 2782
 Pérez, T. 2559
 Pérez L., C. M. 932
 Pérez-Lachaud, G. 1194, 1236
 Pérez-Maluf, R. 581
 Pérez-Mendoza, J. 2531
 Pérez Pacheco, M. C. R. 2430
 Pérez Pacheco, R. 1757, 2424
 Pérez-Sánchez, C. 1513
 Perich, M. J. 1040
 Periquet, G. 2717
 Ferring, T. M. 2554, 2586
 Perrott, M. 2415
 Perry, J. N. 2298
 Persons, M. H. 1290
 Perveen, S. 145, 834
 Peshwe, S. 384
 Peters, A. 983
 Petersen, M. K. 1945, 2019
 Peterson, R. D., II 1760
 Petersson, S. 24, 997
 Petkevičius, S. 1048
 Pettit, W. J. 389
 Eveling, R. 1847, 2772
 Pfammatter, W. 170
 Pfannenstiel, R. S. 573, 771
 Pfrirer, H. A. 429
 Pfister-Wilhelm, R. 619, 2042, 2726
 Pham-Delegue, M. H. 1985
 Phatak, S. C. 263
 Philipsen, H. 141
 Phillips, J. 1728
 Pi, Z. Q. 960
 Pi ZhongQing 960
 Piątkowski, J. 1532
 Picanço, M. 830, 1196, 1531, 2526
 Picanço, M. C. 462
 Pickett, C. H. 1396, 1865
 Pickett, J. A. 73, 1987
 Pitherney, M. S. 1038, 1771
 Piekarska-Boniecka, H. 2250
 Pierre, D. 580
 Pierre, E. 1568
 Pięta, D. 2163
 Pieterse, P. J. 414
 Pietrantonio, P. V. 2524
 Pike, K. S. 1975
 Pilipiyuk, V. A. 701
 Pilipiyuk, V. I. 701
 Pinchak, W. E. 259
 Pingel, R. L. 1438
 Pinnock, D. E. 1037
 Pinto, J. 1576
 Pinto, J. D. 2720
 Pintureau, B. 869, 1893
 Pinzón, L. 2375
 Piquer, J. 2288
 Plana, L. 1870
 Plant Protection News 1072
 Plarre, R. 1728
 Platner, G. R. 2720
 Platt, J. O. 1547
 Pleban, S. 2501
 Poch, S. M. 691
 Podgwaite, J. D. 289, 962, 1683
 Podile, A. R. 67, 223, 1184
 Poehling, H. M. 2739
 Poinar, G. O., Jr. 55
 Poirier, L. 970
 Pokharkar, D. S. 2515
 Polak, M. 1328
 Polanía, I. Z. de 45
 Polaszek, A. 55, 1182, 1894, 2798
 Poll, J. T. K. 102, 787
 Pollet, A. 2750
 Pomella, A. W. V. 2467
 Pomerinke, M. A. 211
 Pompanon, F. 869
 Ponnamma, K. N. 2740
 Pons, C. 2132
 Ponsonby, D. J. 553, 821
 Pont, D. 2434
 Poorani, J. 2567
 Poornima, K. 2224
 Poper, G. L. 405
 Popowska-Nowak, E. 1044, 2360
 Poppelen, P. van 1763
 Poppy, G. M. 73, 577, 2178
 Poprawski, T. J. 1991, 2269
 Porcar, M. 2712
 Porrini, C. 1836
 Porter, S. D. 381, 605, 1911
 Porto Santos, G. 1149
 Posenato, G. 1839
 Postal Parra, J. R. 896
 Posthuma-Doodeman, C. J. A. M. 716, 2015
 Pouhair, D. 1517
 Pouzat, J. 1993
 Pow, E. M. 985
 Powell, A. A. 2161
 Powell, H. G. 239
 Powell, J. 237, 1629
 Powell, J. E. 13
 Powell, W. 73, 222, 577, 1272, 1987, 2178, 2700
 Pozdniakov, V. N. 656
 Prabhu, K. S. 2300
 Pradeep, S. 2273
 Prado, A. P. do 1759
 Prakash, H. S. 1423
 Pramanik, M. 99
 Pramila Gupta 558

- Pramod, M. S. 41
 Pramote Sirirote 1013
 Pramuk, J. B. 1906
 Prasad, B. 348, 1731
 Prasad, D. 14
 Prasad, J. 286
 Prasad, R. D. 308, 2637
 Prasifka, J. R. 2341
 Pratisoli, D. 2651
 Prats, V. V. 1049
 Pratt, J. E. 1692
 Pratt, P. D. 317, 862, 2633
 Pratt, P. W. 395
 Preé, D. J. 1569
 Prem Dureja 1424
 Prescher, S. 912
 Presidente, P. 1729
 Pribetić, D. 1404
 Price, B. D. 340
 Pridaux, G. 2060
 Priest, T. E. 419
 Prieto, A. 2280
 Prieto, L. M. 2374
 Prinsloo, G. L. 1889
 Prior, C. 1358
 Prishchepa, L. I. 919
 Privitera, S. 852
 Proctor, H. C. 2799
 Proenza, M. A. 1597
 Proffitt, J. R. 1466
 Pronier, I. 1084
 Proude, J. 2595
 Prozell, S. 2409
 Pu, Z. L. 737
 Pu ZheLong 737
 Pukkala, T. 291
 Pullen, K. R. 1064
 Puls, A. 2187
 Punja, Z. K. 399
 Purcell, A. H. 874
 Puri, A. 731
 Purnima Sinha 2234
 Purvis, G. 990
 Pusztai-Carey, M. 1099
 Puzari, K. C. 1167, 2231
 Pye, B. J. 796, 1109, 1214
 Qin, J. H. 31
 Qin, M. 1299
 Qin, Q. L. 1936
 Qin JianHua 31
 Qin Min 1299
 Qin QiLian 1936
 Qiu, D. S. 737
 Qiu, L. 977
 Qiu, Y. T. 2015
 Qiu, Z. L. 2683
 Qiu DaoShou 737
 Qiu HongGui 2683
 Qiu Ling 977
 Qiu ZhongLiang 2683
 Quarles, W. 2067, 2497
 Queiroz, M. M. C. 1764
 Quenin, H. 712, 860, 1853
 Quentin, M. E. 610
 Qui, H. G. 2683
 Quicke, D. L. J. 1239-1240, 1969
 Quimby, P. C., Jr. 1849
 Quintanilla, P. 813
 Quintela, E. D. 466
 Quintero H., C. 2318
 Quiroz Romero, H. 379
 Quisenberry, S. S. 725
 Qureshi, Q. G. 1541
 Rabasse, J. M. 604
 Rabindra, R. J. 1375
 Rabinovitch, L. 1764
 Rachappa 2688
 Rachappa, V. H. 2514
 Radcliffe, E. B. 1471
 Radhika, P. 526, 2551
 Radócz, L. 959
 Raffa, K. F. 587, 954
 Ragab, Z. A. 1444
 Ragaai, M. 1351, 2545
 Raguraman, M. 1535
 Raguchander, T. 1474, 1585
 Ragumoorthy, K. N. 1819
 Rahiman, P. A. 933
 Rahimian, H. 1472
 Rahman, A. A. 620
 Rahman, M. H. 1239-1240
 Rahman, T. M. A. 2195
 Rahmouni, R. 495
 Rai, A. K. 1637
 Ralsdorf, K. 983
 Raj, D. 227, 234
 Raja, J. A. J. 2123
 Raja Muthukrishnan 276
 Rajagopal, B. 1208
 Rajagopal, D. 899, 2273, 2451
 Rajalahiti, R. M. 2193
 Rajan, K. 2043
 Rajan, M. V. 440
 Rajani, T. S. 2115
 Rajappan, K. 1474
 Rajasekaran, B. 1375
 Rajasekhar, D. W. 2337, 2514
 Rajasekhar, W. 2688
 Rajender Singh 763
 Rajendra Singh 39, 1243, 1247, 2010, 2150
 Rajendran, B. 2216, 2541
 Rajendran, G. 2286
 Rajeshwari, S. 2221
 Rajeswari, E. 2123
 Raju, N. S. 1423
 Rajukkannu, K. 204
 Rajurkar, R. B. 992
 Ram, A. 554, 570
 Ram Kishore 1491
 Rama, N. 668, 1291
 Ramachander, P. R. 1855
 Ramadnan, T. H. 2750
 Ramakers, P. M. J. 1087
 Ramakrishnan, N. 678
 Ramakrishnan, S. 2286
 Ramalho, F. de S. 1235
 Ramalho, F. S. 1904-1905, 1998
 Ramani, N. 411, 2474
 Ramarethinam, S. 1208
 Ramdas Kamdi 384
 Ramesh Arora 229, 802
 Ramm, C. W. 2356
 Ramos, L. H. M. 1349
 Ramos, M. 103, 542, 1920, 2285
 Randall, L. A. 1011
 Rangarajan, A. V. 994
 Rangpal Singh 23
 Ranković, B. 1510
 Rao, D. V. S. 2401
 Rao, G. M. 445
 Rao, K. T. 1188
 Rao, M. S. 149, 151, 154, 835, 2222, 2225-2226
 Rao, N. S. 777, 2588, 2695
 Rao, P. A. 445, 1188
 Rao, P. V. S. 1819
 Rao, U. 16, 2223
 Rao, Y. R. M. 440
 Rapp, G. 235
 Raqib, A. 628
 Rashmi Aggarwal 1424, 2131
 Raspi, A. 968
 Raspudić, E. 1707
 Rat, E. 2201
 Rathi, Y. P. S. 2168
 Ratna Ghosh 879
 Ratnasinghe, G. 2643
 Raulston, J. R. 253
 Raupp, M. J. 984
 Raut, S. K. 2315
 Ravensberg, W. J. 2104
 Rawat, H. 2447
 Ray, S. N. 2172
 Rayachetry, M. B. 2494
 Reader, R. J. 427
 Reardon, R. C. 962, 1663-1664, 2094
 Reberg-Horton, C. 714
 Rebollo, R. R. 868
 Reddanna, P. 223
 Reddy, C. 2345
 Reddy, D. D. R. 1107
 Reddy, G. S. 1732
 Reddy, M. S. 1691
 Reddy, P. P. 149-151, 835, 2116, 2222, 2225-2227, 2560
 Reddy, S. C. V. 1820
 Reddy, S. T. 616
 Reddy, Y. V. R. 735
 Redfern, M. 1672
 Reed, D. A. 1306
 Reekie, E. G. 434
 Rees, J. S. 2353
 Reese, B. D. 2005
 Reeser, R. 984
 Reeves, D. W. 2381
 Regal, R. R. 2047
 Régnière, J. 479, 2368
 Rehacek, J. 1775
 Reichmuth, C. 2410
 Reid, J. W. 1006
 Reid, S. 1863, 1882
 Reid, W. 2294
 Reifschneider, F. J. B. 2186
 Reimer, N. J. 1616
 Reina, P. 1611
 Reinhold, J. 655
 Remadevi, O. K. 276
 Remaudière, G. 2748
 Rembold, H. 2042
 Ren, H. F. 1500
 Ren, Y. S. 202
 Ren HuiFang 1500
 Ren YingDang 2146
 Ren YiShen 202
 Renard, D. 178
 Renault, S. 1993
 Renn, N. 365, 1761
 Resk, G. 1488
 Reversat, G. 2594
 Rey, D. 1007
 Rey, M. 2071
 Reznik, S. Y. 1207
 Riabchinskaya, T. A. 1562
 Riazuddin, S. 2619
 Ribeiro, B. M. 2716
 Ribeiro, J. C. 1221
 Ribeiro, R. C. F. 2453
 Ribeiro, Z. M. A. 1058
 Rice, M. 2415
 Rice, N. R. 909
 Rice, W. C. 2149
 Richards, A. 1693
 Richards, D. R. 567
 Richards, E. H. 2723
 Richardson, M. S. 1618
 Richardson, P. N. 2252, 2396
 Richardson, R. G. 428
 Riches, C. 2798
 Richter, A. R. 2171
 Richter, J. 339
 Riddick, E. W. 90
 Ridgway, R. L. 1912
 Riechert, S. E. 1285
 Riedel, W. 753
 Riedell, W. E. 13
 Rieger, S. 390
 Rieux, R. 171, 844, 2056
 Riggs, R. D. 2184
 Rijo, E. 1043
 Rincón, A. 2071
 Rincon-Castro, M. C. del 2061
 Riordan, T. 982
 Riordan, T. P. 1465, 1467
 Ríos, L. 101
 Rios, M. L. 680
 Ripouteau, H. 2562
 Ritchie, B. J. 1494
 Rivas, P. G. G. 932
 Rivenez, M. O. 133
 Rivero, A. 2724
 Rivers, D. B. 1017
 Rivière, F. 1740
 Rivillas O., C. A. 932
 Rizzo, M. C. 1600
 Robbe, A. 162
 Robert, L. L. 1040
 Roberti, R. 2065
 Roberts, G. M. 1763
 Robertson, K. 1475
 Robin, C. 2287
 Roca, A. C. 1230, 1384
 Rocha, J. de R. de S. 881
 Rocha, J. R. S. de 876
 Rocha de Alencar, A. 457
 Rock, D. L. 2714
 Rocke, D. M. 1237
 Roda, A. 180
 Roden, P. M. 2359
 Rodham, D. K. 2069
 Rodier, J. S. 1055
 Rodrigues, I. B. 1739, 2421
 Rodriguez, D. H. 1049
 Rodríguez, H. 1920, 2114, 2285
 Rodriguez, I. 1647
 Rodríguez, J. 2548
 Rodríguez, J. M. 1134
 Rodriguez, L. del B. 272
 Rodríguez, M. G. 1647
 Rodríguez, R. M. 1777
 Rodríguez-Kábana, R. 1346
 Rodríguez-Padilla, C. 1859
 Rodriguez R., F. 1481
 Rodriguez-Saona, C. 2653
 Roermund, H. J. W. van 716
 Rogers, D. L. 112
 Roh, J. Y. 2711
 Rohani, P. 2052
 Rohde, M. 602
 Roig, J. 2217
 Roitberg, B. D. 592
 Rojas, E. B. 932
 Rojas, M. G. 496, 514, 1845, 1871, 2537
 Rojas-Rousse, D. 2581
 Rojo, S. 502
 Roland, J. 596
 Rollán, M. C. 515
 Roltsch, W. J. 271
 Roman, D. X. 1433
 Romani, R. 2020
 Romeiro, R. S. da 1515
 Romeis, J. 484, 781, 1487
 Romero, H. Q. 379
 Romig, R. F. 762
 Rong, I. H. 673
 Ropek, D. 2169-2170, 2730, 2783
 Rosa, A. de la 944
 Rosales A., L. C. 2077
 Rose, E. A. F. 2443
 Rose, M. 312, 666, 978
 Rosendahl, S. 1175
 Rosenheim, J. A. 257, 270, 523, 582, 1656, 1957
 Rosi, M. C. 1279
 Rosinska, J. 1101
 Roskam, M. M. 1355
 Ross, R. E. 97
 Rossetti, V. 2279
 Rossi, W. 1022
 Rothuis, A. J. 734
 Rothwell, N. L. 2159
 Rott, A. S. 821
/>
 Rouland, C. 2594
 Roux, A. M. le 2202
 Roux, G. le 2202
 Rovarsi, P. F. 2367
 Rovira, A. D. 729
 Rowney, D. L. 287
 Roy, H. E. 600
 Roy, J. K. 2579
 Roy, P. 1835
 Roy, S. K. 1497
 Roy, T. C. D. 137
 Royer, L. 1268, 2017
 Royle, D. J. 1677
 Rü, B. le 788, 2018
 Ruberson, J. R. 256, 258, 263, 2340, 2538, 2627
 Ruggeri, L. 1023, 2437
 Ruiz, C. 1677
 Rummel, D. R. 259
 Rumpf, S. 448
 Ruohomäki, K. 1666, 2055
 Russell, P. E. 2791
 Ruszczyk, A. 1221
 Rutz, D. A. 380
 Ruxton, G. D. 2052
 Ryabchinskaya, T. A. 837
 Ryder, M. H. 729
 Sá, L. A. N. de 1614
 Saavedra, J. L. D. 1869
 Sabelis, M. W. 586, 1251, 2262, 2593
 Saber, S. A. 1959
 Sadakathulla, S. 204
 Sadana, G. L. 741
 Sadeghi, H. 1992
 Sadler, T. 2029
 Sadler, T. J. 2112

- Sadof, C. S. 704
 Saeed, A. 1898
 Sæterbø, K. G. 755
 Sagar, S. K. 1736
 Sagardoy, M. A. 1734
 Sagarra, L. A. 2617
 Ságghy, Z. 17
 Sagnia, S. 1720
 Sahragard, A. 2674
 Saikia, B. 2323
 Saikia, K. 1633
 Saikia, M. K. 153, 557, 2231
 Saikia, R. 925
 Saikia, U. N. 1344, 2231
 Sailaja, P. R. 223
 Sailstad, D. M. 2755
 Saini, R. S. 1641
 Sait, S. M. 2778
 Saito, O. 801
 Saito, T. 1093
 Saito, Y. 1961
 Saitoh, H. 353, 2766
 Sajap, A. S. 1233
 Sajuj, K. A. 1713, 2394, 2397-2398
 Sakagami, T. 1961
 Sakakibara, M. 890
 Sakurai, H. 2080
 Salah, H. B. 334
 Salama, H. S. 550, 620, 2153, 2176
 Salamanca, M. 2378
 Salame, L. 2278
 Salas, H. 218
 Salas-Araiza, M. D. 803
 Salazar, F. S. 868
 Salazar-Solis, E. 803
 Sale, F. 409
 Saleem, A. 2152
 Saleh, H. M. A. 129
 Saleh, M. 1363
 Saleh, M. M. E. 688, 1393
 Salem, S. A. 2153, 2176
 Salgado, C. H. G. 1902
 Salisbury, A. N. 1688
 Sallam, M. N. 2002
 Saltarén, L. 880
 Salvo, A. 1410, 2742
 Samanta, A. 1835
 Samb, P. I. 2228
 Sambeek, J. van 2727
 Samish, M. 1038, 1771-1772, 1775
 Samiyappan, R. 1428, 1474, 1585, 2123
 Sampson, C. 829, 1141
 Sampson, M. N. 1298
 Samson, P. R. 1642
 Samu, F. 1218
 Samuelian, S. 2352
 Sancassani, G. 1839
 Sánchez, A. M. 2559
 Sánchez, L. 108, 1647
 Sánchez, N. E. 2259
 Sánchez, V. 195, 2033
 Sanchis, A. 643
 Sanchis, V. 332, 618
 Sanders, M. 1901
 Sanderson, J. P. 7, 989
 Sands, D. P. A. 2616
 Sang, R. C. 1758
 Sangvorn Kitthawee 2035
 Sanjay Arya 23
 Sankaranarayanan, C. 2637
 Sanna, P. 2266
 Sanogo, E. 1733
 Sansone, C. G. 267, 2341
 Santamaría, A. 1134
 Santamaria, S. 139, 2565
 Santamarina Mijares, A. 1757, 2424, 2430
 Santhalakshmi, G. 931, 1632, 2543, 2606
 Santhi, A. 2221
 Santi, R. 2309
 Santiesteban, A. 2317
 Santos, C. C. F. dos 1185
 Santos, T. M. dos 2621
 Sanz, J. J. 1668
 Sarasúa, M. J. 855
 Sáringer, G. 1371, 1747
 Sarmah, D. K. 1167
 Sarmia, N. 1341
 Sarode, S. V. 1923, 2521-2522
 Sárosptaki, M. 1571, 1800
 Sarrazyn, R. 2235
 Sasaki, J. 528
 Satapathy, C. R. 2293
 Sathiamma, B. 231, 1622
 Sathiyabama, M. 914
 Satish Kumar 747, 775
 Sato, H. 1359
 Sato, K. 801
 Sato, M. 612, 816-817
 Sato, Y. 36, 2213, 2610
 Sato, Z. 816-817
 Satoh, K. 1092
 Satpute, U. S. 473, 1226
 Satrija, F. 1028
 Satyendra Singh 16, 2223
 Sauer, A. 1705
 Sauerborn, J. 402, 2486
 Savary, S. 2717
 Sawyer, A. J. 1965
 Saxena, H. 778, 1379
 Saxena, K. N. 2137
 Saxena, R. 1107
 Saxena, R. R. 773
 Saxena, S. K. 2234
 Say, M. M. 2481
 Sayed, A. A. 641
 Sbordonii, V. 409
 Sbrana, C. 2066
 Sbrenna, G. 1836
 Scalco, A. 183-184
 Schaalg, G. B. 449
 Schade, M. 883
 Schaefer, M. 49
 Schaffer, M. 2113
 Schafleitner, R. 219
 Schaitza, E. 2094
 Schaub, L. 2525
 Schauff, M. E. 506, 1178, 2283
 Schausberger, P. 1200, 1313, 2022-2023, 2633, 2658, 2691, 2693-2694, 2697
 Schedl, W. 1684
 Scheepmaker, J. W. A. 1232
 Scheffer, R. J. 128
 Schellhorn, N. A. 1451
 Schenke, D. 2532
 Schilthuitzen, M. 1888
 Schilthuisen, M. 1198
 Schmidt, F. V. G. 772
 Schirra, K. J. 2256
 Schirra, M. 2267
 Schlein, Y. 1040
 Schlösser, E. 2580
 Schmaedick, M. A. 2204
 Schmale, K. 1942
 Schmidt, D. A. 2555
 Schmidt, G. H. 1698, 1976
 Schmidt, H. W. 446
 Schmidt, O. 597, 2036
 Schmidtmann, E. T. 372
 Schmiedeknecht, G. 767, 2188, 2757
 Schmitt, A. 1526-1527, 2535
 Schmitt, J. 1522
 Schmutterer, H. 2244
 Schnürer, J. 24, 331, 997, 1716-1717
 Schoeller, M. 2097
 Schoeman, M. W. 2403
 Schoen, L. 135, 1533
 Schoene, P. 836, 1418, 2125
 Schoenig, S. E. 1865
 Schöller, M. 333, 2406, 2409
 Scholz, B. C. G. 733
 Scholz, D. 946
 Schönrogge, K. 1678
 Schreiber, S. J. 471
 Schripsema, J. 128
 Schroder, R. F. W. 1353-1354
 Schröder, T. W. 2308
 Schroeder, W. J. 201
 Schruft, G. 182
 Schulz, U. M. 1521-1522
 Schumacher, P. 2021
 Schuster, D. J. 1322
 Schütte, C. 1269, 1273, 1720
 Schwörer, U. 2003
 Scogin, V. L. 395
 Scott, J. K. 1073, 1075
 Scriber, J. M. 1335
 Scutareanu, P. 2262
 Sebastian, S. 558
 Sebestyén, I. 831
 Sechan, Y. 1740
 Seddon, B. 1526-1527, 2161
 Sedlacek, J. D. 340
 Seem, R. C. 1563
 Seema Wahab 1817
 Seenivasagan, R. 1926, 2603, 2675
 Seetharaman, K. 808, 811
 Segal, D. 2719
 Segers, R. 244
 Seguni, Z. 2307
 Sehgal, S. S. 1736
 Seike, S. H. 1282
 Sekar, V. 2028
 Şeker, D. A. 2725
 Şekeroğlu, E. 1937
 Seki, A. 1338
 Seleena, P. 1743
 Selgrade, M. K. 2755
 Selomo, M. 355
 Seltmann, K. C. 2553
 Selvarajan, M. 2291
 Semtner, P. J. 1877
 Sen, B. 114
 Sen, S. N. 2349
 Senapati, B. 2604
 Sengonca, C. 883, 1610
 Senior, L. 8
 Sentenac, G. 179
 Sepulveda, I. R. 1464
 Sermann, H. 2105
 Serra-Freire, N. M. 1764
 Serrano, A. 944
 Setokuchi, O. 642
 Severinghaus, L. L. 1990
 Sezen, K. 1617
 Shaalan, E. A. A. 1737-1738
 Shabbir, S. 33
 Shabnum Shabbir 33
 Shachnai, A. 192
 Shadia, E. A. A. 2527
 Shaffer, B. T. 1913
 Shafii, B. 725
 Shah, A. H. 243
 Shah, P. A. 501, 1858
 Shahda, W. T. 2233
 Shahid Karim 2619
 Shahina, F. 645
 Shalaby, F. F. 2479
 Shama Afrozé 510, 2589
 Shamarao Jagagirdar 2549
 Shamila Kalia 957
 Shamoun, S. F. 399
 Shamsan, A. D. A. 2110
 Shang, H. Z. 2312
 Shang HongZhong 2312
 Shanmuganathan, N. 165
 Shanmugapriya, M. 470
 Shanower, T. G. 484, 781, 1487
 Shao, Z. Z. 622, 1954
 Shao ZongZe 622, 1954
 Shapiro, J. P. 201
 Shapiro, M. 1334
 Sharanabasava, H. 2671
 Sharga, B. M. 783
 Sharkey, M. J. 340, 2249
 Sharma, A. K. 2126
 Sharma, B. K. 2165, 2391
 Sharma, C. K. 1491
 Sharma, D. D. 840
 Sharma, K. K. 345-347
 Sharma, M. L. 53, 1641
 Sharma, N. 879
 Sharma, R. D. 2236
 Sharma, S. 1115, 1934
 Sharma, S. K. 2165
 Sharma, S. N. 1000
 Sharma, V. P. 1751
 Sharmila Pandey 1243, 1247, 2010
 Shashi Sharma 1115, 1934
 Shashidhar Viraktamath 667
 Shattock, R. 121, 1525
 Shaw, K. 1109
 Shaw, M. R. 838
 Shaw, P. W. 1565
 Shaw, S. R. 2157
 Shea, K. 432
 Shearer, P. W. 2261
 Shebayan, J. A. Y. 2512
 Sheela, M. S. 2115
 Shelestova, V. S. 1370
 Sheley, R. L. 430
 Shelton, A. M. 103, 2200, 2204
 Shelton, H. M. 1670
 Shen, B. J. 2683
 Shen, F. R. 205
 Shen, H. S. 818
 Shen, J. L. 453
 Shen, J. Z. 664
 Shen, M. Q. 566
 Shen, Q. 952
 Shen BoJun 2683
 Shen FaRong 205
 Shen HuaShan 818
 Shen JinLiang 453
 Shen JiZhong 664
 Shen MiaoQing 566
 Shen Qiang 952
 Sheng, J. K. 505, 1131, 1892
 Sheng, M. L. 507
 Sheng JinKun 505, 1131, 1892
 Sheng MaoLing 507
 Shenhmar, M. 412, 1374, 1631, 1794
 Shepard, B. M. 12, 2113
 Sheppard, A. W. 2485
 Sheppard, J. 401
 Sher Singh 23
 Sherkhane, P. D. 2392, 2578
 Sherrod, D. 268
 Sherwood, J. E. 2130
 Shetty, H. S. 26, 1423
 Shetty, S. A. 26
 Shevale, B. S. 2281
 Shi, G. L. 894
 Shi, W. P. 1821
 Shi, Y. M. 2117
 Shi, Z. H. 1284, 1924, 2626
 Shi, Z. Y. 2563
 Shi GuangLu 894
 Shi WangPeng 1821
 Shi YanMao 2117
 Shi ZhenYa 2563
 Shi ZuHua 1284, 1924, 2626
 Shiao, F. L. 306
 Shibao, H. 993
 Shields, E. J. 1468
 Shih, C. J. 2079, 2550
 Shih, J. Y. 2568
 Shih ChengJen 2079, 2550
 Shilu Biswas 39, 2150
 Shima, K. 889
 Shimada, M. 2734, 2736
 Shimada, T. 1206
 Shimaza, M. 1682
 Shimazu, M. 1359
 Shimoda, T. 2701
 Shin, D. B. 95, 1811
 Shin, S. C. 2363
 Shin DongBum 95, 1811
 Shin SangChul 2363
 Shingare, V. S. 225
 Shipp, J. L. 144
 Shirata, A. 1710
 Shivesh Kumar 277, 2348
 Shmarlovskaya, S. V. 814
 Shoda, M. 654
 Shoeib, A. A. 2119
 Shrikant Chavan 490
 Shiram, A. N. 1012
 Shubber, A. 1730
 Shubha Govind 2625
 Shuja, A. 8
 Shuja Uddin 2589
 Shujaiddin 510
 Shukla Chakraborty 1882
 Shurov, V. I. 1803
 Siddaramiah, A. L. 2549
 Siddiqui, M. R. 558
 Siddiqui, I. A. 78, 2180, 2232, 2299
 Siddiqui, Z. A. 2785
 Sieglaff, D. H. 1498, 1862
 Siekmann, G. 2036
 Sierota, Z. 293

- Sierra, J. M. 1687
 Siggelkow, C. 1383
 Sigsgaard, L. 780
 Sikora, E. 1346
 Sikora, R. A. 93, 1426, 2192, 2194
 Silva, C. A. D. da 1154
 Silva, F. de A. G. da 911
 Silva, I. G. 1041, 1769-1770, 1778, 2438
 Silva, I. M. M. S. 1197, 1355
 Silva, J. de 2354
 Silva, R. B. Q. da 212
 Silva-Wemeck, J. O. 2716
 Silveira, E. B. da 794
 Simanca, M. E. 2548
 Sime, K. R. 849
 Simko, B. 761
 Simmons, A. M. 83
 Simmons, G. 1101
 Simoen, J. 2235
 Simon, C. J. 602
 Simon, S. 171, 844, 2056
 Simoni, S. 1575, 2205
 Simpson, S. 230
 Simpson, S. J. 233
 Sinclair, J. B. 64, 66
 Sindhan, G. S. 763
 Sinègre, G. 1337
 Singaravelu, B. 678
 Singh, A. 1641
 Singh, A. P. 285, 292
 Singh, B. 1484
 Singh, D. V. 1424, 2131
 Singh, H. 741
 Singh, H. B. 2789
 Singh, H. J. 1509
 Singh, H. M. 198
 Singh, H. V. 81
 Singh, J. 81, 412, 741, 1374, 1631, 1794, 2794
 Singh, N. I. 348, 1731
 Singh, P. P. 1484
 Singh, R. 23, 763, 1243, 1247, 2010, 2150
 Singh, R. N. 1999, 2676
 Singh, R. S. 81
 Singh, R. S. J. 509
 Singh, S. 16, 23, 2223
 Singh, S. B. 198
 Singh, S. N. 927
 Singh, S. P. 926, 934, 1113, 1148
 Singh, S. S. 1459
 Singh, T. K. 804, 1509
 Singh, U. 1482
 Singh, U. S. 2401
 Singhal, B. K. 440
 Singhapong, S. 2035
 Singleton, G. 2093
 Sinha, P. 2234
 Sinigaglia, M. 516
 Siripong Singhapong 2035
 Siriote, P. 1013
 Siscaro, G. 1601, 1611
 Sisler, H. D. 2791
 Sisterson, M. S. 1602
 Sitanu Pan 1348, 2579
 Sitaramaiah, K. 2401
 Sivakumar, C. V. 555, 2221
 Sivakumar, G. 22
 Sivaprakasam, K. 811
 Sivaprakasam, N. 833
 Sivaprasad, P. 2115
 Sivasithamparam, K. 1329
 Sivinski, J. 953, 1161, 1615, 2275
 Skirvin, D. J. 2387-2388
 Skoudridakis, M. T. 110
 Skovgård, H. 2436
 Skovmand, O. 1337, 1733
 Skrzecz, I. 949
 Skrzypczyńska, M. 2355
 Slavicek, J. M. 289, 1683
 Slone, D. H. 185, 1826, 2322
 Slosser, J. E. 259
 Sluis, I. van der 1495
 Smaghe, G. 1120-1121
 Smaili, C. 895, 917
 Smid, E. J. 1901
 Smilanick, J. L. 191
 Smiley, D. W. M. 1987, 2700
 Smith, C. 264, 2339
 Smith, D. 200, 207
 Smith, J. 2215
 Smith, J. D. 2343
 Smith, J. W., Jr. 2592
 Smith, K. A. 2332
 Smith, K. M. 207
 Smith, K. P. 2208
 Smith, L. J. 147-148, 499
 Smith, L. K. 494
 Smith, M. W. 909
 Smith, N. J. 207
 Smith, P. T. 2031
 Smith, R. A. 679, 2557
 Smith, R. L. 279
 Smith, S. M. 950, 1634, 2404
 Smither-Kopperl, M. L. 1810
 Smithers, C. N. 2636
 Smitley, D. R. 2159
 Smits, P. H. 639, 1232, 2710
 Sneijers, B. 1537
 Snodgrass, G. L. 548
 Soares, J. J. 255, 457
 Sobhian, R. 1055, 1070, 1797-1798, 1807
 Sobiczewski, P. 2238
 Sobkowiak, M. 1403
 Sobota, G. 50, 1627
 Soglio, F. K. dal 66
 Solano-Vergara, J. 1780
 Soleyman-Nezhadiyan, E. 535
 Solomon, A. 2744
 Solomon, M. G. 2252
 Solulu, T. 230
 Solulu, T. M. 233
 Somashekar, D. 2576
 Somchoudhury, A. K. 1835
 Son, D. Y. 2566
 Son DaeYoung 2566
 Sonali Joshi 384
 Sonalkar, V. U. 473, 1226, 1923, 2521-2522
 Song, D. B. 1074
 Song, G. J. 651
 Song, H. M. 450, 1130
 Song, J. H. 2214
 Song, W. W. 2117
 Song, X. Y. 651
 Song DongBao 1074
 Song Guilfing 651
 Song HuiMing 450, 1130
 Song JeongHeub 2214
 Song WenWu 2117
 Song XiaoYan 651
 Songa, J. M. 779
 Soniya, V. P. 1622
 Sonkar, U. B. 465
 Sood, A. K. 117
 Sørensen, J. 240
 Sorensen, K. N. 191
 Soria, S. de J. 1181
 Sorokina, T. A. 125, 161
 Soto, E. S. 1902
 Souibgui, M. 334
 Souissi, R. 788, 2018, 2189
 Souliotis, C. 1581
 Sousa, L. P. de 1069
 Sousa Rocha, J. de R. de 1586
 Souza, I. S. de 2638
 Spatafora, J. W. 511
 Speight, M. 1693
 Spence, J. R. 1442
 Spencer, J. P. 1883
 Spiegel, Y. 1391
 Spivak, S. 96
 Spooner-Hart, R. 538
 Spooner-Hart, R. N. 867
 Sporleder, M. 235
 Spotts, R. A. 329, 843
 Spratt, D. 1729
 Spurrier, M. F. 359
 Sreeramulu, K. R. 2311, 2451, 2573
 Srinivas Kambhampati 1432
 Srinivasa, M. V. 2345
 Srinivasan, K. 1291, 1818, 2540
 Sriramulu, M. 1107
 Srivastava, K. D. 2131
 Srivastava, R. 1140
 Srivastava, R. C. 1541
 Srivastava, R. P. 1590
 Stacey, G. 2795
 Stachowiak, B. 1701
 Stankiewicz, A. 1532
 Stankiewicz, M. 1730
 Stanley, J. N. 1081
 Stansly, P. A. 201, 211, 1322
 Stanton, N. L. 2370
 Stapel, J. O. 263, 583
 Staples, J. A. 1368
 Stark, D. M. 874
 Starý, P. 1956, 1975, 2139, 2748
 Staten, R. 1101
 Stathas, G. J. 1612
 Stav, G. 2429
 Stavisky, J. 826
 Steenberg, T. 753, 1949, 2439-2441
 Stefani, E. 1555
 Stéfano, J. F. di 965
 Stefanovska, T. R. 1370
 Steidle, J. L. M. 1266, 1725
 Steinbauer, M. J. 1059
 Steiner, B. 2042
 Steinkraus, D. 2336
 Steinkraus, D. C. 269, 273, 380, 520, 940, 1653, 2144
 Stelzl, M. 626
 Stenlid, J. 696, 1690
 Stensvand, A. 167
 Stephan, Z. A. 159
 Stephens, M. J. 846
 Stepman, W. 1537
 Sterk, G. 136, 177
 Stettler, P. 2650
 Stevens, M. M. 1593
 Stevens, P. M. 2054
 Stewart, A. 841
 Stewart, C. A. 1812
 Stewart, J. G. 87
 Stewart, R. K. 1084
 Stewart, S. D. 2343
 Stewart-Wade, S. M. 400
 Stiling, P. D. 413
 Stimmann, M. 714, 1106
 Stirling, G. R. 147-148, 499
 Stockwell, C. A. 2127
 Stockwell, V. O. 190
 Stojanović, S. D. 839
 Stolk, C. 2411
 Stolz, I. 2772
 Stolz, M. 311
 Stonedahl, G. M. 1407
 Storch, V. 2435
 Stouthamer, R. 1189, 1197-1198, 1355, 1888, 2720
 Strack, B. H. 2058
 Strand, M. R. 565
 Strasser, H. 2133
 Stratopoulou, E. T. 918
 Street, L. 1730
 Streett, D. A. 274, 2331
 Strem, M. 2483
 Striggow, R. A. 892
 Strobel, G. A. 2501
 Strong, D. R. 1331
 Strong, W. B. 2322
 Strongman, D. B. 931
 Struttman, J. M. 740
 Stuart, A. 2027
 Stuart, M. K. 483
 Stuart, R. J. 609
 Studebaker, G. E. 2536
 Stür, W. W. 1670
 Sturhan, D. 2751
 Sturmbecker, C. 1886
 Styer, E. L. 2085
 Suárez H., Z. 2077
 Subasinghe, S. S. N. S. 196
 Subhash Chander 1446
 Suckling, D. M. 1582, 1806
 Sudha, S. N. 2028
 Sudhamoy Mandal 2131
 Sudheendrakumar, V. V. 955
 Sugar, D. 190, 843
 Sugura, K. 518
 Suguna, N. 2224
 Suh, C. P. 2427
 Suh, C. P. C. 262
 Suh SungOul 511
 Suiter, D. R. 649
 Sukhjeet Kaur 1637
 Sukhwinder Kaur 229
 Sullivan, B. T. 2553
 Sümege, Zs. 1371
 Summy, K. R. 253
 Sumodan, P. K. 1751
 Sun, C. Y. 651
 Sun, H. L. 524
 Sun, J. H. 1178
 Sun, J. X. 1838
 Sun, R. H. 1838
 Sun, X. L. 682
 Sun CaiYun 651
 Sun HongLiang 524
 Sun JiangHua 1178
 Sun JuXin 1838
 Sun RuiHong 1838
 Sun Xiulian 682
 Sunahara, T. 355
 Sundari, M. S. N. 1090
 Sunderland, K. 1413
 Sunderland, K. D. 2388
 Suneja, S. 1343
 Sung, G. H. 2781
 Sung, K. C. 2566
 Sung KeeCheol 2566
 Sunil Joshi 777, 2588, 2695
 Sunita Suneja 1343
 Sunitha, V. S. 2177
 Suprun, S. M. 2418
 Suresh Kumar 23
 Susamma Mathai 2177, 2329
 Suseelendra Desai 2580
 Sushil, S. N. 346-347, 504
 Sutherst, R. W. 2054
 Sütterlin, S. 2690
 Sutton, B. D. 1297
 Sutton, J. C. 1553, 2237
 Suyama, T. 294
 Suzuki, M. 659
 Švecová, M. 945
 Swadling, I. R. 168
 Swarniappan, M. 1125, 1162, 1878, 1907
 Swamy, H. N. 2311
 Swarniappan, M. 585
 Swati Peshwe 384
 Swearingen, W. 1110
 Sweeney, J. 975
 Swezey, S. L. 265
 Swiadon, L. 2497
 Swirski, E. 1891
 Symondson, B. 1413
 Symondson, W. O. C. 873, 2296
 Syrett, P. 1812, 2485
 Szalanski, A. L. 1760
 Szalay-Marzso, L. 1747
 Szeőke, K. 1748
 Szinetár, C. 1218
 Szita, É. 1218
 Szőcs, G. 1470
 Szopjńska, D. 2185
 Stejnberg, A. 1511
 Szukala, J. 2381
 Tabacchi, R. 1793
 Tabashnik, B. E. 795, 2400
 Tabla, V. P. 361
 Taborsky, V. 2395
 Tacconi, R. 2309, 2784
 Tadei, W. P. 1739, 2421
 Tahvonen, R. 18
 Takabayashi, J. 36, 1274
 Takada, H. 518, 2213
 Takafuji, A. 1274, 1573
 Takagi, M. 76, 1539, 1876, 2774
 Takahashi, E. 2080
 Takahashi, F. 1573
 Takahashi, M. 1097
 Takasu, K. 76, 575, 583, 1259, 2666
 Takatsuka, J. 552
 Takehara, T. 95
 Takemoto, H. 2386, 2528, 2614
 Takemoto, J. Y. 191
 Takesaki, K. 2528, 2614
 Takeuchi, H. 1142
 Takeuchi, J. 991
 Talavera S., M. E. 195

- Talley, S. E. 962-963
 Tamai, M. A. 2383, 2615
 Tambong, J. T. 766
 Tamez-Guerra, R. 1859
 Tan, F. 2717
 Tan, Y. G. 1179
 Tan YaoGeng 1179
 Tanaka, C. 2004
 Tanaka, G. 1519
 Tanaka, T. 1435, 2611
 Tang, J. 646
 Tang, J. L. 28
 Tang, LiChang 44
 Tang, W. 729
 Tang, W. H. 2327
 Tang, Y. Q. 1909
 Tang, Z. 2310
 Tang Jian 646
 Tang JiLiang 28
 Tang WenHua 729, 2327
 Tang YuQing 1909
 Tang Zi 2310
 Tanhuanpää, M. 2055
 Tanzen, E. 1976
 Targino da Costa, I. 457
 Tateishi, Y. 789, 2191
 Tatenio, A. 57
 Tatman, K. M. 290
 Tauber, C. A. 1918
 Tauber, M. J. 1918
 Tautz, J. 580
 Tavares, J. 1202, 2652
 Tavella, L. 2253
 Tawatsin, A. 357
 Taylor, A. J. 71
 Taylor, D. B. 1760
 Taylor, G. G. 909
 Tchabi, A. 946
 Teakle, R. 1863
 Tedders, W. L. 909, 2294
 Teerink, J. A. 1967
 Tehrani, A. S. 1472
 Teixidó, N. 326, 332, 618, 2241
 Teixido, N. 1147
 Tejeda, G. 2548
 Tempero, J. 1730
 Temudo, M. P. 1727
 ten Wubben, J. 2790
 Tepe, I. 2459
 Teperi, E. 18
 Termorshuizen, A. J. 79
 Terrace, T. E. 729
 Terragitti, G. 1798, 2465
 Terrier, O. 1108
 Testa, A. 1468
 Teuriara, N. 210
 Tewari, S. K. 1900
 Thakare, H. S. 226, 1620
 Thakur, V. S. 2236
 Thaler, J. O. 625
 Thaler, J. S. 1652
 Thangavelu, K. 1999
 Thapliyal, P. N. 1482
 Thavara, U. 357
 Thavaselvam, D. 1751
 Theodoratus, D. H. 1997
 Theopold, U. 597, 2036
 Theunis, W. 85, 210, 1948
 Theunissen, J. 1087
 Thibout, E. 1993, 2202
 Thiem, S. M. 610
 Thiéry, I. 1337, 2562
 Thiery, I. 1752
 Thies, C. 2297
 Thilagavathi, G. 1834
 Thirel, R. 1740
 Thistlewood, H. M. A. 1569
 Thomas, H. 402, 913, 2486
 Thomas, J. 1711
 Thomas, M. 2215
 Thomas, M. B. 441, 571, 1326, 2779
 Thomas-Oates, J. E. 128
 Thompson, P. B. 313
 Thompson, S. N. 1864
 Thomsen, L. 1951
 Thonart, P. 1514
 Thontadarya, T. S. 1884
 Thornton, C. R. 1848
 Thorpe, K. W. 289, 962-963
 Thuróczy, C. 2136
 Thurston, G. S. 284
 Thwaite, W. G. 867, 2520
 Tian, H. Y. 739
 Tian, K. F. 530, 1213
 Tian, M. Y. 2250
 Tian HaiYue 739
 Tian KunFa 530, 1213
 Tian MingYi 2250
 Tichy, H. V. 128
 Tidona, C. A. 1953
 Tigano, M. S. 1041, 1769-1770, 1778, 1837, 2438
 Tilak, V. W. 1140
 Tillman, P. G. 2538
 Tilmer, P. 2184
 Tipwadee Attathom 1013
 Tirry, L. 1256, 1979
 Tjitrosemio, S. 423
 Tjosvold, S. A. 314
 Tkaczuk, C. 1689
 Tobar H., S. P. 2320
 Toccafondi, P. 2367
 Toft, R. J. 1972
 Toguchi, A. 1646
 Tol, R. W. H. M. van 2243
 Tola, E. 2066
 Tomás, Ó. 1960
 Tomás Martínez, S. H. 1757
 Tomasik, P. 2783
 Tomley, A. J. 1791
 Tommasini, M. G. 717, 832
 Tomov, R. I. 1210
 Tong, X. H. 2212
 Tong XiaoHua 2212
 Topolovec-Pintarić, S. 1560
 Torgerson, P. 2452
 Torikura, H. 801
 Torres, A. N. L. 2454
 Torres, E. C. 2746
 Torres, J. B. 1149
 Torres, L. 2304
 Tosetti, M. I. S. de 1558
 Tosi, L. 1839
 Tóth, F. 1218
 Tóth, P. 1071
 Tóth, S. 1747
 Tourenq, J. N. 2434
 Tourneur, J. C. 38
 Tourniaire, R. 143, 884
 Tourte, L. 1583
 Townsend, M. L. 520
 Toyoshima, S. 1224
 Trandem, N. 742, 755
 Traoré, D. 1084
 Trapman, M. 1827
 Treiblmayr, K. 619, 2042
 Trejo-Estrada, S. R. 1464
 Tremblay, E. 577, 1250, 2178
 Trenczek, T. 621
 Trentini, M. 1023, 2437
 Trevisan, L. M. 1569
 Triapitsyn, S. V. 599, 662
 Tripathi, C. P. M. 1272
 Tripathi, H. S. 2167-2168
 Triviño, C. G. 1386
 Trojanowska, K. 1701
 Tropp, J. M. 762
 Trotin-Caudal, Y. 827
 Troubridge, J. T. 2249
 Trouve, C. 169, 633
 Tsacas, L. 2569
 Tsai, J. H. 549, 2269
 Tsankov, G. 1698
 Tsay, T. T. 215
 Tschartke, T. 2297
 Tsigbey, F. K. 1494
 Tsitsipis, J. A. 1254
 Tso, I. M. 1990
 Tso IMin 1990
 Tsolakis, H. 1891
 Tsuboki, Y. 1083, 2151
 Tsuda, K. 528, 2198
 Tsuda, M. 1789
 Tsuge, S. 2198
 Tsuji, G. 2198
 Tsukamoto, H. 1789
 Tsukamoto, T. 1710
 Tu, J. C. 2210
 Tuan, S. J. 106, 1234
 Tuan ShuJen 106, 1234
 Tuda, M. 341, 1316, 2737
 Tulman, E. R. 2714
 Tunç, I. 1807
 Tuor, U. 501, 1858
 Turlings, T. C. J. 37, 591
 Turner, C. E. 406
 Turner, C. L. 1019
 Turnock, W. J. 1868
 Tytkowska, K. 2185
 Tyni-Juslin, J. 805
 Tzean, S. S. 2568
 Tzeng, C. C. 1830
 Tzeng, Y. M. 1164, 1234
 Tzeng YewMin 1164, 1234
 Tzortzakakis, E. A. 156
 Uchida, Y. 2220
 Udayakumar, M. 1884
 Uddin, S. 2589
 Ueda, Y. 736
 Ueno, H. 1314
 Ueno, T. 2609, 2654, 2682, 2686
 Ueyama, Y. 659
 Uhm, J. Y. 1811
 Uhm JaeYoul 1811
 Ulber, B. 1626, 2305
 Ulhoa, C. J. 2037
 Ulusoy, M. R. 1610
 Uma Rao 16, 2223
 Uma Singh 1482
 Umarova, T. Y. 1207
 Umeshia, S. 26
 Undeen, A. H. 2046
 Underwood, N. 1414
 Unruh, T. R. 875
 Upadhyay, R. K. 2796
 Urano, S. 889
 Urban, J. 283, 1201
 Urbaneja, A. 1173, 1229, 1231, 1594, 1960
 Urs, K. C. D. 2293
 Urs, S. D. 2300
 Usall, J. 326, 332, 618, 1147, 2241
 Uspensky, I. 1744
 Uthamasamy, S. 1654
 Utkhede, R. S. 1549
 Uygun, N. 883, 1255, 1610
 Uzma Zafar 2619
 Uzun, S. 2078
 Vagn Jensen, K. M. 2440
 Vaishnav, M. U. 1619
 Vaithilingam Sekar 2028
 Val, I. del 1597
 Valadares-Ingles, M. C. 1837
 Valcarcel, F. 2374
 Vale, F. X. R. do 2048
 Valenciano, J. B. 2156
 Valenti, M. A. 2051
 Valk, H. C. H. G. van der 2771
 Valladares, G. 1410, 2742
 Van, T. K. 436, 2504
 van Alebeek, F. A. N. 2240
 Van Alphen, J. J. M. 102
 van Alphen, J. J. M. 787
 van Baaren, J. 2648
 van Baarlen, P. 1273
 van Beek, N. A. M. 1225
 van Damme, P. 657
 van den Berg, M. 1603
 van den Berg, M. A. 1605
 van den Meiracker, R. A. F. 2593
 van der Bij, A. J. 128
 van der Burg, W. A. C. M. 1199
 van der Drift, K. M. G. M. 128
 van der Linden, A. 820
 van der Pas, R. K. 2104
 van der Sluis, I. 1495
 van der Valk, H. C. H. G. 2771
 Van der Werf, W. 485
 van der Werf, W. 2659
 van Dijk, N. 2466
 van Driesche, R. 370, 606, 978
 Van Driesche, R. G. 7, 312
 van Driesche, R. G. 762, 989
 Van Duyn, J. W. 262
 van Emden, H. F. 1815
 van Griensven, L. J. L. D. 1232
 van Huis, A. 1720
 van Impe, G. 858
 van Kan, F. J. P. M. 2720
 van Kan, J. 2790
 Van Lenteren, J. C. 492
 van Lenteren, J. C. 708, 716, 2015, 2075, 2690
 van Loon, L. C. 1340, 1495
 van Looy, L. 1537
 van Meel, R. 1570
 van Meer, M. M. M. 1355
 van Poppelen, P. 1763
 van Roermund, H. J. W. 716
 van Sambeek, J. 2727
 van Tol, R. W. H. M. 2243
 van Zyl, L. M. 956
 Vandenberg, J. D. 103, 542, 1950, 1965, 2200
 Vanderbruggen, D. 186
 Vandermeer, R. K. 2046
 Vandewalle, M. 1979
 Vänninen, I. 675, 986
 Vänninen, L. 805
 Várady, G. 842
 Varaprasad, K. S. 560
 Varchola, J. M. 1449
 Varella, A. M. 921
 Vargas, E. 2587
 Vargas, H. 2357
 Vargas, J. M. 2634
 Vargas-Camplis, J. 272
 Varma, R. V. 955
 Varol, M. I. 2158
 Vass, E. 617
 Vaughn, A. 887
 Vavre, F. 1248
 Veeranna, G. 1187, 2416-2417
 Veeravel, R. 1535
 Vega, O. F. L. 1172
 Veiga, A. F. S. L. de 212
 Vela, J. R. G. 1230, 1384
 Velasquez, J. J. 1867
 Velazhahan, R. 1428
 Vélez A., P. E. 2320
 Velusamy, R. 52
 Venkadasubramanian, V. 1377
 Venkatesan, P. 1753
 Venkatesan, T. 777, 934, 1148, 2695
 Venkateshalu 724
 Venkateswerlu, G. 616
 Venugopal, M. N. 1713, 2394, 2397-2398
 Venugopal, M. S. 1376, 2516
 Venzon, M. 586
 Verde, G. I. 1599
 Verde, V. I. 1599
 Verdú, M. J. 855, 1594
 Verghese, A. 1606
 Verhaar, M. A. 118, 810
 Verissimo, C. J. 1036
 Verkerk, R. H. J. 11
 Verma, B. R. 2165
 Verma, J. P. 1651
 Verma, S. C. 1795
 Verma, S. K. 2515
 Verma, T. D. 2349
 Vesely, D. 945
 Vesonder, R. F. 399
 Vestergaard, S. 2154
 Vet, L. E. M. 363, 578, 1223
 Vicedo, B. 2288
 Vicente, A. C. P. 1750
 Vidal, C. 703, 1507, 1872
 Vidal, M. 1870
 Vidal, S. 943, 1626
 Vidhyasekaran, P. 29, 1425, 1428, 2123
 Vidy, P. 2776
 Viggiani, G. 1118, 1896, 1940, 2715
 Vigneault, C. 475, 1268
 Vijai Pal 2068
 Vijayalakshmi, C. K. 933
 Viktor, M. 906
 Vilajeliu, M. 854
 Vilardell, P. 854
 Vilcinskis, A. 1303
 Vilich, V. 1426
 Villanueva-Jiménez, J. A. 1608
 Villegas, B. 2472
 Villemant, C. 288
 Villiger, M. 1580

- Vinaas, I. 332, 1147, 2241
 Vinas, I. 326, 618
 Vincent, C. 1084, 2617
 Vinha Zanuncio, T. 1149
 Vinnik, E. 987
 Vinson, S. B. 576, 2592
 Viñuela, E. 1077, 1120-1122, 1133
 Viraktamath, C. A. 724, 2345
 Virtanen, T. 2358
 Vis, R. de 2385
 Visalakshy, P. N. G. 410, 1054, 1801, 2475
 Visser, J. 2790
 Visser, M. E. 582, 1278
 Visut Baimai 2035
 Vitelli, J. S. 2493
 Vitorino, M. D. 1069
 Vitou, J. 426
 Vogelgsang, S. 394, 2461, 2500
 Vogt, H. 1121
 Voinovich, N. D. 1207
 Volchansky, C. R. 2488
 Vollenberg, D. S. 2402
 Völkl, W. 2003, 2031
 Volkman, L. E. 623
 Volkova, T. 2780
 von Weissenberg, K. 291
 Vráblová, M. 1071
 Vrain, T. 975
 Vrain, T. C. 2192
 Vromant, N. 734
 Vu Sinh Nam 1006
 Vuignier, R. 170
 Vulinec, K. 1161
 Vuorela, P. 1341
 Vurro, M. 2513
 Waage, J. 1816
 Waas, J. R. 344
 Wäckers, F. 2020
 Wäckers, F. L. 579, 999, 1270, 1942, 2672
 Wada, H. 1519
 Wada, S. 2613
 Wada, T. 1406
 Wadhams, L. J. 73, 985, 1987
 Wadsworth, M. L. 191
 Wahab, S. 1817
 Wahid, O. A. A. 2263
 Wahl, D. B. 849
 Waite, G. 1327
 Wajnberg, E. 1279
 Walczak, B. 2298
 Wale, M. 752
 Walker, J. T. S. 1582
 Walker, P. 829, 1678
 Walker, R. 2161
 Waller, P. J. 376-378, 1033, 1035, 1052
 Walsh, C. J. 2635
 Walsh, D. B. 1106
 Walsh, P. J. 2112
 Walsh, U. F. 487
 Walter, D. E. 1327, 2799
 Walter, G. H. 209
 Walton, W. E. 1011
 Walzer, A. 2693-2694
 Wan, H. Z. 442
 Wan HengZhi 442
 Wanderley, P. A. 1904
 Wang, B. H. 194
 Wang, B. L. 1392
 Wang, B. S. P. 295
 Wang, C. H. 2564
 Wang, C. L. 1402
 Wang, C. Q. 1129
 Wang, C. S. 646, 1380
 Wang, D. 1936
 Wang, D. H. 2141
 Wang, F. H. 2618
 Wang, F. W. 960
 Wang, G. H. 1131
 Wang, G. M. 1461, 2007
 Wang, H. M. 924
 Wang, J. H. 960
 Wang, J. S. 25, 730
 Wang, J. X. 1111
 Wang, K. 144
 Wang, L. 1380
 Wang, L. H. 938-939
 Wang, M. G. 894
 Wang, P. 624
 Wang, Q. 924
 Wang, Q. F. 48
 Wang, R. 468, 2618
 Wang, R. Y. 1381
 Wang, S. C. 1234
 Wang, S. F. 299
 Wang, S. S. 493
 Wang, S. Z. 252
 Wang, W. M. 2756
 Wang, W. X. 1339
 Wang, X. G. 100, 450, 1112, 1293
 Wang, X. J. 298
 Wang, Y. 252, 1262, 1309
 Wang, Y. K. 1814
 Wang, Y. L. 1299, 1350, 2069, 2460
 Wang, Z. H. 194
 Wang, Z. T. 1638-1639
 Wang, Z. W. 2093
 Wang, Z. X. 1550
 Wang, Z. Y. 252, 1312
 Wang, Z. Z. 455
 Wang BaoHua 194
 Wang BoLi 1392
 Wang ChengQiu 1129
 Wang ChengShu 646, 1380
 Wang ChinLing 1402
 Wang ChungHsiung 2564
 Wang Dean 1936
 Wang DongHua 2141
 Wang FangHai 2618
 Wang FuWei 960
 Wang GongMing 1461, 2007
 Wang GuoHong 1131
 Wang HuiMin 924
 Wang JingHui 960
 Wang JinSheng 25, 730
 Wang JinXin 1111
 Wang LiHe 938-939
 Wang Lin 1380
 Wang ManGue 894
 Wang Qi 924
 Wang QiFa 48
 Wang Ren 468, 2618
 Wang RongYan 1381
 Wang ShouZheng 252
 Wang ShuFeng 299
 Wang ShunCheng 1234
 Wang WeiMing 2756
 Wang WenXi 1339
 Wang XiaoJun 298
 Wang XinGeng 100, 450, 1112, 1293
 Wang YanLi 2460
 Wang YanLing 1299
 Wang Ye 252
 Wang Yi 1262, 1309
 Wang YouKui 1814
 Wang YouLin 1350, 2069
 Wang ZhenYue 252
 Wang ZhenZhong 455
 Wang ZhiXue 1550
 Wang ZhuYin 1312
 Wang ZongHua 194
 Wang ZuWang 2093
 Wanner, P. H. 290
 Ward, M. D. W. 2755
 Ward, V. 2029
 Ward, V. K. 2112
 Wardlow, L. R. 985
 Warfield, W. C. 2338
 Washburn, J. O. 623
 Washnikar, R. 2401
 Watanabe, M. 1362
 Waterhouse, D. F. 700, 1352
 Watson, A. K. 394, 401, 2460-2461, 2500
 Way, M. J. 2369
 Wearing, C. H. 1565, 1582
 Weaver, R. J. 1305
 Webb, K. 1225
 Webb, R. E. 289, 962-963, 1360
 Webb, S. E. 1322
 Webber, J. F. 1692, 2403
 Weber, Z. 1700, 2197
 Webster, J. A. 2670
 Webster, J. M. 559, 1947, 2260, 2644
 Wegener, C. 2160
 Wegensteiner, R. 2290
 Wei, D. W. 1312
 Wei, P. X. 28
 Wei, X. S. 1129
 Wei DeWei 1312
 Wei PengXiao 28
 Wei XueSheng 1129
 Weintraub, P. G. 1098
 Weinzierl, R. A. 1021
 Weisel-Eichler, A. 1782
 Weiser, J. 2395
 Weiss, B. 192
 Weiss, M. J. 1244
 Weissenberg, K. von 291
 Wellby, C. 597
 Wells, L. 258, 2627
 Welsch, C. 2105
 Wen, H. C. 1598
 Wen HungChih 1598
 Wenneker, M. 2466
 Wenny, D. L. 282
 Wentworth, K. 180
 Werf, W. van der 485, 2659
 Werner, D. 1521-1522
 Werner, M. 1700, 2372
 Weslien, J. 2362
 Wesson, D. M. 2428
 West, L. M. 499
 West, R. J. 2371
 Westerdijk, C. E. 784, 2100
 Westerman, P. R. 485, 608, 2659
 Weston, P. A. 340
 Westra, P. 2499
 Wetchakit, D. 2328
 Weyda, F. 630
 Whaley, W. H. 449
 Wharton, R. A. 2316
 Wheeler, G. S. 436, 2504
 Wheeler, J. 1314
 Wheeler, M. M. 290, 969
 Wheeler, T. A. 397
 Whipples, J. M. 239, 569
 White, A. 2733
 White, C. 602
 White, D. 302
 White, E. B. 599
 White, G. B. 962-963
 Whiteman, S. A. 841
 Whitman, D. W. 2624
 Wickstrom, M. 2414
 Widyatuti, S. 165
 Wieggers, G. L. 639, 2710
 Wiegmann, B. M. 2034
 Wiesner, A. 2727
 Wijayagunasekara, H. N. P. 158
 Wijesekara, G. A. 506
 Wilcox, W. F. 1563
 Wilde, G. 1432
 Wilhelm, E. 219
 Wilkin, D. R. 2407
 Wilkins, R. J. 2413
 Wilkinson, B. J. 1061
 Wilkinson, T. 650
 Wilks, C. 2415
 Willems, P. E. L. 2006
 Williams, D. F. 1776
 Williams, D. J. M. 300
 Williams, I. H. 916, 1623-1624, 2298
 Williams, J. E. 2773
 Williams, K. L. 2655
 Williams, M. C. de 2387
 Williams, M. de C. 2388
 Williams, R. H. 569
 Williams, T. 1433, 1693, 2423
 Williamson, S. 1361
 Willink, E. 218
 Willis, A. J. 1326
 Willis, R. B. 964
 Willson, B. W. 1804
 Wilsey, W. T. 103
 Wilson, C. G. 435, 2510
 Wilson, C. L. 163
 Wilson, M. 1512, 2261, 2718
 Wilson, R. 2499
 Wilson, W. T. 2342
 Winchester, J. 397
 Wingfield, M. J. 956
 Winiarska, W. 1063, 1357
 Winn, P. D. 2069
 Winstanley, D. 2203, 2252
 Wiseman, B. R. 2145
 Wisniewski, M. 163
 Wissing, K. D. 437
 Wita, I. 561
 Withers, T. M. 388, 417
 Wittenstein, E. 669
 Witzgall, P. 1806
 Wolstrup, J. 374, 1048, 2446-2448, 2450
 Wong, L. J. G. 1349
 Woo, I. 2497
 Woo, S. D. 335, 1325, 2711
 Woo SooDong 1325
 Wood, A. R. 392
 Wood, B. 909
 Wood, P. 533
 Wood, S. N. 2547
 Woodburn, T. L. 389
 Woodcock, C. M. 73, 1987
 Woodson, W. D. 13
 Woodward, S. 696
 Woolley, J. B. 2283
 Workie, M. A. 2757
 Workman, J. 710
 Workman, P. D. 1011
 Worner, S. D. 1136
 Wozniak, C. A. 242
 Wright, S. P. 533
 Wratten, S. 2215
 Wratten, S. D. 846, 2084
 Wright, D. J. 11, 454, 474, 1508, 1932
 Wright, M. K. 628
 Wright, R. J. 746
 Wright, T. 1304
 Wu, B. G. 469
 Wu, C. 304, 1463
 Wu, C. J. 472, 1365
 Wu, C. Y. 2564
 Wu, D. L. 299
 Wu, H. M. 818
 Wu, J. X. 1168
 Wu, R. S. 306
 Wu, R. Y. 306
 Wu, W. S. 303, 1490
 Wu, X. J. 342
 Wu, Y. D. 453
 Wu, Y. M. 1422
 Wu, Y. T. 1595
 Wu BaoGuo 469
 Wu ChihYu 2564
 Wu CuiJuan 472, 1365
 Wu DongLiang 299
 Wu HuaMing 818
 Wu JiXing 1168
 Wu WenShi 303
 Wu XiJin 342
 Wu YaTai 1595
 Wu YiDong 453
 Wu YuMei 1422
 Wubben, J. ten 2790
 Wuike, R. V. 225
 Wunderlich, L. R. 1145
 Wyss, E. 1580
 Xavier, E. 521
 Xi, C. W. 28
 Xi ChuanWu 28
 Xia, J. Y. 1661, 2334
 Xia, X. G. 1350
 Xia JingYuan 1661, 2334
 Xia XueGang 1350
 Xian, X. Y. 1312
 Xian XiaoYong 1312
 Xiang, C. G. 455
 Xiang, H. Q. 1389
 Xiang ChangGuo 455
 Xiang HongQiong 1389
 Xie, D. L. 2575
 Xie, J. J. 2777
 Xie, M. Q. 1500
 Xie, Z. G. 1821
 Xie DeLing 2575
 Xie JianJun 2777
 Xie MeiQing 1500
 Xie ZhiGeng 1821
 Xin, W. M. 2718
 Xin WanMin 2718
 Xing, X. J. 455
 Xing XieJia 455
 Xiong, C. 70

- Xiong, J. W. 566, 1192
 Xiong Chen 70
 Xiong JiWen 566, 1192
 Xu, B. H. 356
 Xu, B. Z. 1754
 Xu, F. 1595
 Xu, F. Y. 1696
 Xu, G. 2563
 Xu, H. F. 2012
 Xu, H. G. 298
 Xu, J. 739
 Xu, J. H. 640, 1974, 2607
 Xu, J. L. 503
 Xu, J. P. 723
 Xu, L. S. 356
 Xu, M. S. 1814
 Xu, Q. 640, 1941, 2607
 Xu, W. 2057
 Xu, Y. Y. 1253, 2012
 Xu, Z. F. 531, 1895, 2777
 Xu, Z. G. 2129
 Xu, Z. H. 2460
 Xu, Z. Y. 1500
 Xu BaoHai 356
 Xu BoZhao 1754
 Xu Feng 1595
 Xu FuYuan 1696
 Xu Guang 2563
 Xu HeGuang 298
 Xu Hong 722
 Xu HongFu 2012
 Xu JianPing 723
 Xu JieLian 503
 Xu Jing 739
 Xu JunHuan 640, 1974, 2607
 Xu LongShan 356
 Xu MingSu 1814
 Xu Qian 640, 1941, 2607
 Xu Weian 2057
 Xu XiaoFeng 2049
 Xu YongYu 1253, 2012
 Xu ZaiFu 531, 1895, 2777
 Xu ZhengHao 2460
 Xu ZhiGang 2129
 Xu ZhiYuan 1500
 Yadava, C. P. S. 1934
 Yamaguchi, D. 642, 2528, 2614
 Yamaguchi, I. 791, 1496
 Yamaguchi, K. I. 1097
 Yamanaka, S. 2389
 Yamaoka, R. 36
 Yamashita, F. 659
 Yaméogo, L. 1749
 Yan, D. F. 442
 Yan, F. S. 70
 Yan, G. 358
 Yan, L. Q. 298
 Yan, Q. S. 613
 Yan, S. H. 2230
 Yan, Y. H. 189, 758, 856, 1821
 Yan, Z. 729
 Yan DaFu 442
 Yan FuShun 70
 Yan Ge 358
 Yan LiQin 298
 Yan QingSheng 613
 Yan YuHua 189, 758, 856, 1821
 Yan ZhiNong 729
 Yanase, T. 1539
 Yang, G. H. 847
 Yang, H. W. 77, 500, 690, 2641
 Yang, L. 1463
 Yang, Q. 1814
 Yang, R. X. 530, 1213
 Yang, S. L. 1895
 Yang, S. X. 938-939
 Yang, W. Q. 2142
 Yang, X. F. 690, 2641
 Yang, X. L. 566
 Yang, X. M. 493
 Yang, Y. H. 2230
 Yang, Z. X. 202
 Yang GuoHui 847
 Yang HuaiWen 77, 500, 556, 690, 2641
 Yang Qing 1814
 Yang RuiXiang 530, 1213
 Yang ShaoLong 1895
 Yang ShuXia 938-939
 Yang WenQing 2142
 Yang XiaoLong 566
 Yang XiaoMing 493
 Yang XiuFen 690, 2641
 Yang ZhiXin 202
 Yanikoğlu, A. 2725
 Yanikölu, A. 1840
 Yaninek, J. S. 1492
 Yano, E. 2612
 Yano, S. 36, 1274
 Yao, J. 1350
 Yao Jiang 1350
 Yardim, E. N. 138
 Yaşar, B. 865
 Yasunaga, C. 528
 Ye, A. Z. 472, 1365
 Ye, B. H. 1958, 2057
 Ye AiZhen 472, 1365
 Ye BaoHua 1958, 2057
 Yeargan, K. V. 573, 771, 1440-1441, 1448, 1483
 Yee, J. L. 1237
 Yehuda, N. 1511
 Yelle, S. 629
 Yeo, H. 1214
 Yeoh, P. B. 1073, 1075
 Yi, H. Q. 622
 Yi HaiQing 622
 Yiallourous, M. 2435
 Yin, C. D. 2324
 Yin, C. S. 1838
 Yin, K. 684, 687
 Yin ChuDao 2324
 Yin ChunShou 1838
 Yin Kun 684
 Ying, Z. 70
 Ying Zhang 70
 Yoder, J. A. 1372
 Yohalem, D. 119
 Yokosuka, T. 736
 Yokoyama, T. 525
 Yonemura, N. 1916
 Yoneyama, K. 736
 Yonow, T. 2054
 Yoon, C. S. 2781
 Yossen, V. E. 1973
 Young, J. P. W. 1966
 Young, L. J. 1467
 Young, S. Y. 249, 266, 296, 941, 1330, 2144
 Young, S. Y. III 2330
 Youssef, N. N. 1001
 Yu, D. Q. 973
 Yu, F. X. 1613
 Yu, G. Y. 46, 66
 Yu, H. 1553, 2237
 Yu, J. K. 532
 Yu, J. L. 924
 Yu, J. Z. 1544
 Yu, L. Q. 2460
 Yu, X. 401
 Yu, X. P. 519, 2534
 Yu, Y. 189, 856
 Yu, Y. M. 335, 1325
 Yu, Y. X. 1892
 Yu, Z. I. 622
 Yu, Z. N. 15, 486, 1954, 2089
 Yu DaQuan 973
 Yu FuXiang 1613
 Yu GuoYue 46
 Yu Hai 2237
 Yu JiaLin 924
 Yu JianKai 532
 Yu JihZu 1544
 Yu LiuQing 2460
 Yu XiaoPing 519, 2534
 Yu Yi 189, 856
 Yu YongMan 1325
 Yu YunXiang 1892
 Yu ZiNiu 15, 486
 Yu ZinIu 622
 Yu ZiNiu 1954, 2089
 Yuan, H. X. 252
 Yuan, Z. M. 1735, 1755, 2769
 Yuan, Z. W. 1677
 Yuan HongXia 252
 Yuan ZheMing 2769
 Yuan ZhiMing 1735, 1755
 Yuen, G. Y. 59, 2442
 Yukawa, J. 642
 Yuliyantiningisih, S. 47
 Zadoks, J. C. 810
 Zafar, U. 2619
 Zaghloul, O. A. 776
 Zahari, M. W. 1031
 Zainab, S. 645
 Zakharov, I. A. 1930
 Zaki, F. N. 142, 1363, 2153, 2199, 2527
 Zaki, M. J. 78
 Zalom, F. 1564, 1583
 Zalom, F. G. 907, 1106
 Zalucki, M. P. 733
 Zambolim, L. 2048
 Zandud, P. 218
 Zang, S. Y. 298
 Zang SiYue 298
 Zannou, I. 1492
 Zanoncio, J. C. 462, 830, 859, 1196, 1211, 1245, 1869, 1873
 Zanoncio, T. V. 1245, 1869, 1873
 Zapata, R. 96
 Zappala, L. 1611
 Zargar, M. Y. 1478
 Zayed, A. 2721
 Zayed, G. A. 2195
 Žďárková, E. 337
 Žďárková, E. 1724
 Žďárková, E. 1921
 Zebitz, C. P. W. 484, 781, 1487, 1538, 1988, 2721
 Zeddard, J. L. 2750
 Zehethofer, K. 1886
 Zehnder, G. W. 1346
 Zeid, I. M. 113
 Zeller, B. 446
 Zeller, W. 1559
 Zemek, R. 1294
 Zeng, B. K. 1613, 1880
 Zeng, J. 1909
 Zeng, L. 531
 Zeng, X. H. 486, 2089
 Zeng, X. M. 2310
 Zeng, Z. 1991
 Zeng BingKun 1613, 1880
 Zeng Jun 1909
 Zeng Ling 531
 Zeng XianMing 2310
 Zeng XiaoHui 486, 2089
 Zens, J. 1630
 Zhang, A. S. 189
 Zhang, B. 1682
 Zhang, F. 938-939, 1114, 1978
 Zhang, G. F. 2141
 Zhang, G. M. 1978
 Zhang, G. R. 737, 1453, 1457
 Zhang, G. Y. 682, 1955
 Zhang, H. 160
 Zhang, H. Y. 486
 Zhang, H. Z. 1168
 Zhang, J. B. 1009, 1754
 Zhang, J. M. 2141
 Zhang, J. N. 194
 Zhang, K. Q. 1389
 Zhang, L. 758, 1821
 Zhang, P. 298
 Zhang, Q. H. 507
 Zhang, Q. W. 739, 938-939
 Zhang, S. S. 248
 Zhang, W. Q. 737, 1453, 1457
 Zhang, X. 1111
 Zhang, X. J. 358, 2050
 Zhang, X. L. 2141
 Zhang, X. R. 1074
 Zhang, Y. K. 1681
 Zhang, Y. M. 455, 1735, 1755
 Zhang, Y. R. 1936
 Zhang, Y. X. 325
 Zhang, Y. Z. 1299
 Zhang, Z. 299
 Zhang, Z. B. 2093
 Zhang, Z. F. 1662
 Zhang, Z. J. 342
 Zhang, Z. Q. 325, 705, 1861
 Zhang, Z. R. 758
 Zhang, Z. X. 682
 Zhang AnSheng 189
 Zhang Bo 1682
 Zhang Fan 938-939, 1114, 1978
 Zhang GangYing 1955
 Zhang GuangMei 1978
 Zhang GuangYu 682
 Zhang GuFeng 2141
 Zhang GuRen 737, 1453, 1457
 Zhang HanZhen 1168
 Zhang Hong 160
 Zhang HongYu 486
 Zhang JianMing 2141
 Zhang JiBin 1009, 1754
 Zhang JuNian 194
 Zhang KeQin 1389
 Zhang Long 758, 1821
 Zhang Peng 298
 Zhang QingHe 507
 Zhang QingWen 739, 938-939
 Zhang ShaoSheng 248
 Zhang WenQing 737, 1453, 1457
 Zhang XiaoJing 358
 Zhang XiaoJun 2050
 Zhang XiLin 2141
 Zhang Xin 1111
 Zhang XiuRong 1074
 Zhang YaKun 1681
 Zhang YanRong 1936
 Zhang YanXuan 325
 Zhang YinZheng 1299
 Zhang YongMei 1735, 1755
 Zhang YouMei 455
 Zhang ZaiFu 1662
 Zhang ZengJu 342
 Zhang Zhen 299
 Zhang ZhiBin 2093
 Zhang ZhiQiang 325, 705
 Zhang ZhongXin 682
 Zhang ZhuoRan 758
 Zhang ZhuQing 1861
 Zhao, B. G. 1339
 Zhao, G. Q. 2212
 Zhao, H. P. 205
 Zhao, J. W. 1500
 Zhao, J. Y. 1936
 Zhao, J. Z. 1179
 Zhao, P. 2591
 Zhao, Q. Y. 469
 Zhao, S. X. 2050
 Zhao, T. J. 442
 Zhao, X. H. 469
 Zhao, Z. Y. 194
 Zhao BaiGe 1339, 2146
 Zhao GuoQi 2212
 Zhao HuanPing 205
 Zhao JingWei 1500
 Zhao JingZhao 1179
 Zhao JuYing 1936
 Zhao Ping 2591
 Zhao QiuYan 469
 Zhao ShiXi 2050
 Zhao TianJun 442
 Zhao XiaoHong 469
 Zhao ZhiYing 194
 Zheng, F. Q. 1958, 2057
 Zheng, J. 2210
 Zheng, X. S. 519, 2534
 Zheng, Y. M. 2142
 Zheng, Z. J. 356
 Zheng FangQiang 1958, 2057
 Zheng XuSong 519, 2534
 Zheng YuanMei 2142
 Zheng ZuJie 356
 Zhi, J. R. 1192
 Zhi JunRui 1192
 Zhou, H. J. 160
 Zhou, M. Y. 1422
 Zhou, Q. 1299
 Zhou, T. 2380
 Zhou, W. J. 453
 Zhou, W. R. 2618
 Zhou, X. H. 1312
 Zhou, Y. S. 205
 Zhou, Z. H. 1312
 Zhou HuiJuan 160
 Zhou MinYan 1422
 Zhou Qing 1299
 Zhou Ting 2380
 Zhou WeiJun 453
 Zhou WeiRu 2618
 Zhou XingHua 1312
 Zhou YouSheng 205
 Zhou ZhiHong 1312
 Zhu, C. J. 2120
 Zhu, D. F. 2628
 Zhu, E. L. 1821

Zhu, F. X. 1111
Zhu, J. W. 2669
Zhu, K. Y. 1104
Zhu, M. H. 2141
Zhu, X. F. 453
Zhu, Y. C. 1846, 1851, 2030
Zhu, Z. 1129
Zhu ChangJian 2120
Zhu DiFang 2628
Zhu EnLin 1821
Zhu FuXing 1111
Zhu JunWei 2669
Zhu MingHua 2141
Zhu XieFei 453
Zhu YuCheng 1846, 1851, 2030
Zhu Zhu 1129
Zidack, N. K. 1849
Ziegler, A. 402
Zimand, G. 65
Zimmer, J. 767
Zimmermann, G. 648, 943,
2102, 2252
Zimmermann, H. G. 2457, 2488
Zimmermann, J. 2739
Znaidi, M. 903
Zonno, M. C. 2513
Zorner, P. 1061
Zou, Y. D. 1461, 2007
Zou YunDing 1461, 2007, 2049
Zriba, N. 2130
Zuk, M. 1283
Zukowski, K. 1044
Zyl, L. M. van 956

SUBJECT INDEX

Abamectin

- nontarget effects
 - beneficial insects 207
 - Diglyphus isaea* 1098
 - parasitoids 1825
- toxicity
 - Brachygastra lecheguana* 2526
 - Diadromus collaris* 1112
 - Eretmocerus orientalis* 1830
 - Oomyzus sokolowskii* 450
 - Pediobius foveolatus* 1131
- Abgrallaspis cyanophylli*, predators,
 - Chilocorus nigritus* 553
- Abies balsamea*
 - Choristoneura fumiferana*, Canada 297
 - Lambdina fiscellaria fiscellaria*, Canada 301
- Absidia californica*, *Fusarium oxysporum*,
 - biological control 1700
- Absidia cylindrospora*
 - antagonism
 - Fusarium oxysporum* f.sp. *zingiberi* 2391
 - Pythium aphanidermatum* 2391
 - Sclerotinia sclerotiorum*, biological control 2165
- Abutilon theophrasti*
 - biological control
 - Colletotrichum coccodes* 401
 - fungi 431
 - pathogens, *Colletotrichum gloeosporioides* 2468
- Acacia*, biological control, Alydidae 414
- Acacia implexa*, natural enemies, *Naricus cinctiventris* 414
- Acacia mangium*, *Inglisia bivalvata*, India 276
- Acacia melanoxylon*, *Acrocerops alysidota*, New Zealand 951
- Acacia nilotica*, *Streblote siva*, India 2348
- Acalitus adoratus*, *Chromolaena odorata*,
 - biological control, India 411
- Acanthaspis pedestris*
 - prey
 - Corcyra cephalonica* 2603
 - Earias vittella* 2603
 - Spodoptera litura* 2603
- Acanthaspis siva*
 - development 1926
 - prey
 - Corcyra cephalonica* 1926
 - Earias vittella* 1926
 - Spodoptera litura* 1926
- Acantholyda piceacola*, integrated control, China 1814
- Acanthoscelides obtectus*, pathogens,
 - Beauveria bassiana* 683
- Acari**
 - biological control
 - books 2799
 - Cheyletus eruditus* 1724
 - Eotetranychus willamettei*, USA 1564
 - Typhlodromus occidentalis*, USA 1564
 - cereal grains 337
 - orange orchards, Australia 1593
 - predators
 - Iridomyrmex rufoniger* group 1593
 - Neoseiulus fallacis* 2633
 - stored products pests, biological control, UK 2407
- Acaricides**, toxicity, parasitoids 1093
- Acaroletes tetranychorum**
 - crop fields, Bulgaria 713
 - prey
 - Tetranychus turkestanii* 713
 - Tetranychus urticae* 713
- Acarus siro**
 - biological control, *Cheyletus eruditus* 1724
 - predators, *Cheyletus eruditus* 1921
- Acephate**
 - nontarget effects
 - Anthonomus grandis* 1845

Acephate cont.

- nontarget effects cont.
 - beneficial arthropods 942
 - toxicity, *Cryptolaemus montrouzieri* 1090
- Aceratoneuromyia indica**
 - diversity, orchards, Mexico 1615
 - forests, Mexico 953
 - hosts, *Anastrepha* 953
- Aceria drabae**
 - food plants, *Cardaria draba* 1077
 - Spain 1077
- Aceria genistae**
 - food plants
 - Genista monspessulana* 406
 - Ulex europaeus* 406
- Aceria malherbae**, *Convolvulus arvensis*,
 - biological control, North America 2478
- Aceria salsolae**, *Salsola kali*, biological control 1807
- Acetamiprid**, toxicity, beneficial insects 1118
- Achaea janata**, pathogens, granulosis viruses 678
- Acherontia styx**
 - aubergines 2219
 - parasitoids
 - Telenomus* 2219
 - Trichogramma achaeae* 2219
 - Trichogramma chilonis* 2219
- Acheta domesticus**
 - immune response 1307
 - parasitoids, *Euphasiopteryx ochracea* 1307
 - pathogens
 - Serratia liquefaciens* 534
 - Serratia marcescens* 1307
- Acletoxenus formosus**, *Trialeurodes vaporariorum*, biological control, Italy 315
- Acremonium**
 - hosts
 - Globodera* 2190
 - Heterodera* 2190
- Acremonium butyri**, hosts, *Meloidogyne javanica* 159
- Acremonium charticola**, antagonism,
 - Botrytis cinerea* 1551
- Acremonium obclavatum**, antagonism, *Puccinia arachidis* 914
- Acrididae**
 - biological control, *Metarhizium anisopliae* 441
 - predators
 - Agelenopsis aperta* 1285
 - Argiope trifasciata* 1285
- Acridoidea**, biological control, *Metarhizium anisopliae* 1366
- Acridotheres tristis**
 - prey
 - Agriotes* 1491
 - Agrotis* 1491
 - Holotrichia* 1491
 - Spodoptera litura* 1188
- Acrinathrin**, toxicity, *Adalia bipunctata* 1829
- Acrocerops alysidota**
 - Acacia melanoxylon*, New Zealand 951
 - parasitoids
 - Cirrospilus* 951
 - Dialomorphia* 951
- Acrolepiopsis assectella**
 - parasitoids, *Diadromus pulchellus* 1993
 - predators, *Myrmica rubra* 2202
- Acrosternum aeadum**
 - parasitoids
 - Anastatus auriceps* 772
 - Trissolcus urichi* 772
- Acrotylus blondelli**, biological control,
 - Metarhizium*, Niger 2779
- Actinomucor elegans**, *Fusarium oxysporum*,
 - biological control 1700
- Actinomyces**
 - antagonism
 - Fusarium* 2314

Actinomyces cont.

- antagonism cont.
 - Gibberella fujikuroi* 2314
 - Fusarium oxysporum* f.sp. *vasinfectum*, biological control 252
- Actinomycetales**
 - antagonism
 - Fusarium* 120
 - Pythium* 120
 - Ralstonia solanacearum* 1515
 - Rhizoctonia* 120
 - seedborne organisms, biological control 295
- Aculus schlechtendali**
 - apples
 - Belgium 177
 - Japan 1577
 - biological control, *Typhlodromus pyri*, Belgium 177
 - predators
 - Amblyseius orientalis* 1577
 - Phytoseiidae 1577
- Acyrtosiphon euphorbiae**
 - biological control, *Aphidoletes*, Germany 1705
 - roses, Germany 1705
- Acyrtosiphon ignotus**, predators, *Adalia bipunctata* 676
- Acyrtosiphon kondoi**
 - lucerne
 - Argentina 2156
 - Australia 2155
 - parasitoids, *Aphidius ervi* 2155
 - predators, *Eriopsis connexa* 2156
- Acyrtosiphon lactucae**, parasitoids, *Diaeretiella rapae* 1975
- Acyrtosiphon pisum**
 - biological control, natural enemies 71
 - faba beans 71
 - food plants, UK 782
 - lucerne
 - Argentina 2156
 - Australia 2155
 - USA 1469
 - parasitoids
 - Aphidius ervi* 73, 577, 782, 1004, 1250, 2041, 2155, 2178, 2657, 2696
 - Aphidius pisivorus* 2657
 - Coruna* 782
 - Dendrocerus carpenteri* 2003
 - Ephedrus californicus* 2657
 - Monoclonus nervosus* 1943, 2657
 - Praon pequodorum* 2657
 - Syrphophagus* 782
 - pathogens
 - Erynia neoaphidis* 501, 1858
 - Pandora neoaphidis* 1991
 - predators
 - Amara familiaris* 1469
 - Amara octopunctatum* 1469
 - Cheilomenes sexmaculata* 518
 - Coccinella septempunctata* 567, 572, 600, 636, 1469, 2053
 - Coccinella transversoguttata* 567
 - Coleomegilla maculata* 2053
 - Eriopsis connexa* 2156
 - Geocoris punctipes* 572
 - Harpalus aeneus* 1469
 - Harpalus pennsylvanicus* 636, 1469
 - Hippodamia convergens* 602
 - Nabis americoferus* 572
 - Orius insidiosus* 572
 - Orius majusculus* 1249
 - Philonthus* 1469
- Acythopeus burkhardtorum**
 - Coccinia grandis*, biological control, USA 1065
 - new species 1065
- Acythopeus cocciniae**
 - Coccinia grandis*, biological control, USA 1065
 - new species 1065

Adalia bipunctata

Czech Republic 676
Dysaphis plantaginea, biological control,
 Switzerland 1580
 Europe 1930
 insecticides, toxicity 444
 mating behaviour 1264
 pesticides, toxicity 1829
 pirimicarb, toxicity 1116
 predation, maize fields, USA 1451
 prey

Acyrtosiphon ignotus 676
 Aphididae 1451
Aphis fabae 676
Aphis farinosa 676
Cavariella konoi 676
Eucallipterus tiliae 676
Euceraphis betulae 676
Liosomaphis berberidis 676
Macrosiphoniella artemisiae 676
Tuberculatus annulatus 676

sex ratio 1930

Adelencyrtus brachycaude

China 2563
 hosts, Coccidae 2563
 new species 2563

Adelencyrtus chinensis

China 2563
 hosts, Coccidae 2563
 new species 2563

Adelges tsugae

biological control, *Pseudoscyrnus tsugae*,
 USA 974
 predators, *Pseudoscyrnus tsugae* 1914
Tsuga canadensis, USA 974

Adelphocoris lineolatus

parasitoids, *Peristenus conradi* 762
 predators, predatory arthropods 831

Adjuvants*, entomophilic nematodes 454**Adoxophyes***

parasitoids, *Ascogaster reticulatus* 638,
 1286
 pathogens
Bacillus thuringiensis 1144
Bacillus thuringiensis subsp. *kurstaki*
 659
Entomopoxvirus 638

Adoxophyes orana

apples, Switzerland 178
 biological control, *Anthracorhis nemoralis*,
 Belgium 177

parasitoids

Eulophidae 178
 Ichneumonidae 178
 Perilampidae 178
 Tachinidae 178
 pears, Belgium 177

Aedes*, predators, *Anisops bouvieri* 1753**Aedes aegypti***

biological control
Bacillus thuringiensis subsp.
israelensis
 Malaysia 1743
 Thailand 357
 fishes, Thailand 357
Mesocyclops longisetus, Mexico 361,
 1010

dwelling, Malaysia 1743

pathogens

Bacillus sphaericus 1752
Bacillus thuringiensis 1013
Bacillus thuringiensis subsp. *israelensis*
 350, 1014, 1752
Beauveria bassiana 1736
Iridovirus 2423
Leucothecium emdenii 2422
Penicillium corylophilum 2431
Penicillium fellutanum 2431
Penicillium implicatum 2431
Penicillium janthinellum 2431
Penicillium viridicatum 2431
Penicillium waksmanii 2431
Romanomermis iyengari 2430

predators

Mesocyclops rutneri 1006
Mesocyclops thermocyclopoides 1006
Mesocyclops woutersi 1006
Theridion rufipes 1008
Toxorhynchites rutilus 352
 water containers, Thailand 357

Aedes albopictus

biological control, *Bacillus thuringiensis*
 subsp. *israelensis*, China 1009
 pathogens, *Ascogregarina taiwanensis*
 2428

Aedes annulipes*, parasitoids, *Thyas

barbigera 1015

Aedes cantans*, parasitoids, *Thyas barbigera

1015

Aedes caspius

predators 1738

Egypt 1738

Aedes cataphylla*, parasitoids, *Thyas

barbigera 1015

Aedes communis*, parasitoids, *Thyas

barbigera 1015

Aedes dorsalis*, parasites, *Thyasides

sphagnorum 359

Aedes fluviatilis

pathogens

Penicillium corylophilum 2431

Penicillium fellutanum 2431

Penicillium implicatum 2431

Penicillium janthinellum 2431

Penicillium viridicatum 2431

Penicillium waksmanii 2431

Aedes polynesiensis*, predators, *Mesocyclops

aspericornis 1740

Aedes punctator*, parasitoids, *Thyas barbigera

1015

Aedes rusticus*, pathogenicity 1007**Aedes taeniorhynchus*, pathogens, *Bacillus***

thuringiensis subsp. *israelensis* 2432

Aedes vexans

biological control, *Bacillus thuringiensis*
 subsp. *israelensis*, Germany 1745

breeding places, Germany 1745

Aeolothrips*, tomato fields, Spain 2218**Aeolothrips intermedius***

cucumber fields, Hungary 831

prey

Miridae 831

Tetranychus urticae 831

Thrips tabaci 831

***Africa*, *Azolla filiculoides*, biological control,**

Nymphula oblitalis 1809

Aganaspis pellenaroi

diversity, orchards, Mexico 1615

forests, Mexico 953

hosts, *Anastrepha* 953

Aganaspis pelleranoi*, hosts, Tephritidae 891**Agapeta zoegana*, *Centaurea maculosa*, bio-**

logical control, USA 2495

Agaricus bisporus*, *Pseudomonas tolaasii

1710

Agasicles hygrophila

Alternanthera philoxeroides, biological

control, New Zealand 1812

temperature 1812

Agelenopsis aperta

feeding behaviour 1285

prey

Acrididae 1285

Drosophila 1285

Isoptera 1285

Tenebrio molitor 1285

Ageneotettix deorum

grasslands, USA 1003

predators, *Schizocosa* 1003

Ageniaspis citricola

Australia 1372

hosts, *Phyllocnistis citrella* 546, 1372,
 1608

pesticides, toxicity 1608

Phyllocnistis citrella

biological control

Argentina 218

Italy 1611

USA 211, 887, 2283

rearing techniques 495

strains 1372

Taiwan 1372

water balance 1372

Ageniaspis fuscicollis

apple orchards, Germany 851

behaviour 851

hosts, *Yponomeuta malinellus* 851

Aggressive behaviour

Harmonia axyridis 910

Hippodamia convergens 910

Trissolcus basalis 589, 594, 2664, 2668

***Agistemus exsertus*, apple orchards, Egypt**

1578

Agistemus hystrix*, diet 1219**Agonoscelis rutila*, parasitoids, *Trissolcus***

basalis 1275

Agonum dorsale

pathogens

Beauveria bassiana 753

Paecilomyces farinosus 753

seasonal cycle, apple orchards, Hungary
 1571

Agriotes

predators

Acridotheres tristis 1491

Bubulcus ibis 1491

Corvus splendens 1491

Vanellus indicus 1491

***Agrobacterium*, *Agrobacterium rhizogenes*,**

biological control 220

Agrobacterium radiobacter

Agrobacterium tumefaciens, biological

control 2288

antagonism

Agrobacterium vitis 1555

Globodera pallida 93

potatoes, rhizosphere 2192

Agrobacterium rhizogenes

almonds 220

biological control, *Agrobacterium* 220

Agrobacterium tumefaciens

almonds 2289

antagonists 2289

biological control

Agrobacterium radiobacter 2288

Pseudomonas 161

temperate fruits 161

Agrobacterium vitis

antagonism, *Agrobacterium vitis* 1555

antagonists

Agrobacterium radiobacter 1555

Agrobacterium vitis 1555

Agromyzidae

biological control, *Dacnusa sibirica*,

Austria 311

Heracleum, biological control 404

ornamental plants, Austria 311

parasitoids

Chrysocharis 2742

Chrysotomomyia 2742

Halticoptera 2742

Hymenoptera 2742

Phaenotoma 2742

Agropyron desertorum

Chrysoperla carnea 60

Propylea quatuordecimpunctata, func-

tional responses 63

Agrostis stolonifera*, *Typhula*, Canada 1463**Agrostis stolonifera* var. *palustris***

Rhizoctonia solani 307

Sclerotinia homoeocarpa, Canada 2380

Agrotheres lanceolatus

development 2654

foraging 2686

hosts

Pyrilidae 2654

Trortricidae 2654

Agrotis

predators

Acridotheres tristis 1491

Bubulcus ibis 1491

Corvus splendens 1491

Vanellus indicus 1491

Agrotis segetum*, pathogens, *Bacillus thur-

ingiensis 1951

Aiolocaria dodecapilota

mandarin orchards, India 1596

population dynamics 1596

prey, Homoptera 1596

Alabama argillacea*, predators, *Podisus

nigrispinus 1905

Alcaeorrhynchus grandis

prey, *Chlosyne lacinia saundersii* 920

sunflower fields, Brazil 920

Alcaligenes faecalis*, antagonism, *Fusarium

oxysporum 654

***Alcaligenes piechaudii*, antagonism,**

Xanthomonas campestris pv. *campestris*
 794

Alciphron glaucas*, parasitoids, *Trichopoda

giacomellii 2616

***Aleiodes*, hosts, *Hypomecis* 2399**

- Aleiodes rossicus**
hosts, *Tephрина arenacearia* 757
lucerne fields 757
- Aleiodes testaceus**, hosts, *Epirrita autumnata* 1666
- Aleochara**
hosts
Musca domestica 2436
Stomoxys calcitrans 2436
- Aleochara bilineata**
foraging behaviour 2017
prey, *Delia radicum* 2017
- Aleochara notula**
hosts
Musca domestica 1759
Physiphora aenea 1759
Sarcophaga 1759
Stomoxys calcitrans 1759
- Aleochara puberula**
hosts
Musca domestica 1759
Physiphora aenea 1759
Sarcophaga 1759
Stomoxys calcitrans 1759
- Aleurocanthus rugosa**
Piper beetle
biological control, Acari, India 2315
India 2315
- Aleurocanthus spiniferus**
biological control, *Encarsia smithi*, South Africa 1605
Citrus, South Africa 1605
- Aleurocybotus indicus**, natural enemies, China 2050
- Aleurodicus dispersus**
bananas, Costa Rica 2270
food plants, India 2272
host plants, India 2109
natural enemies 2270
parasitoids
Encarsia 2345
Encarsia haitiensis 2109
Encarsia meritoria 2776
predators
Chilocorus nigrita 2272
Cryptolaemus montrouzieri 2109
Mallada astur 2109
- Aleurothrixus aepim**, parasitoids, *Encarsia aleurothrix* 1894
- Aleurothrixus floccosus**
biological control, *Cales noacki*, Greece 1612
Citrus, Greece 1612
pathogens, *Beauveria bassiana* 1134
predators
Clitostethus arcuatus 1612
Serangium parcesetosum 1964
- Aleurotrachelus socialis**
parasitoids
Amitus macgowni 84
Encarsia bellottii 84
- Aleyrodidae**
biological control
Aphelinidae 716
Encarsia formosa 7
Paecilomyces fumosoroseus, Belgium 136
cucumbers, Belgium 136
greenhouse crops 716
parasitoids
Egypt 1183
Encarsia formosa 2679
Encarsia hispida 2679
Encarsia pergandiella 2679
- Allelopathy**, weeds, reviews 2498
- Allium chinense**, *Fusarium oxysporum* f.sp. *allii*, Japan 94
- Allodorus tuberculator**
hosts, *Xiphidria longicollis* 967
Quercus robur forests, Italy 967
- Allograpta exotica**, keys, fields, Argentina 1458
- Allograpta javana**
mandarin orchards, India 1596
population dynamics 1596
prey, Homoptera 1596
- Allothrombium ovatum**
prey
Aphis gossypii 705
Myzus persicae 705
Rhopalosiphum padi 705
- Alloxysta**
hosts, *Aphis fabae* 1100
Lupinus extracts, nontarget effects 1100
- Alloxysta victrix**
host-seeking behaviour 2005
hosts
Aphidius colemani 2005
Aphidius ervi 590
- Almonds**
Agrobacterium rhizogenes 220
Agrobacterium tumefaciens 2289
Amyelois transitella, USA 907
Aspergillus flavus 905
Eurytoma amygdali, Hungary 906
- Alnus sinuata**, biological control, *Chondrostereum purpureum* 2462
- Alpha-cypermethrin**, toxicity, Syrphidae 91
- Alphitobius diaperinus**
biological control, *Beauveria bassiana* 1053
pathogens
Beauveria bassiana 380, 382, 2034
Verticillium fusisporum 1949
Verticillium lamellicola 1949
Verticillium lecanii 1949
Verticillium psalliotae 1949
- Alternanthera philoxeroides**
biological control
Agasicles hygrophila, New Zealand 1812
Australia 438
USA 424
pathogens
Cercospora alternantherae 2454
Nimbya alternantherae 2454
- Alternaria**
antagonists, *Trichoderma harzianum* 814
biological control, *Ulocladium atrum* 305
culture techniques 1163
Lilium, Netherlands 305
tomatoes 814
- Alternaria alternata**
antagonism, *Botrytis cinerea* 1551
weeds, biological control 1056
- Alternaria crassa**, *Datura stramonium*, biological control 400
- Alternaria euphorbiicola**, *Euphorbia heterophylla*, biological control 398
- Alternaria porri**, antagonists, *Bacillus subtilis* 2548
- Alternaria radicina**
biological control, bacteria 1490
carrots 1490
- Alternaria ricini**
biological control, *Pseudomonas fluorescens* 911
Ricinus communis 911
- Alternaria solani**
antagonists
Bacillus subtilis 2548
Trichoderma 1902
- Alternaria tenuissima**, antagonists, *Trichoderma longibrachiatum* 470
- Altica caerulea**, *Ludwigia adscendens*, biological control 1054
- Alydidae**, Acacia, biological control 414
- Alysia manducator**, hosts, *Hybopygia varia* 1024
- Amara familiaris**
phenology, lucerne fields, USA 1469
prey, *Acyrtosiphon pisum* 1469
- Amara octopunctatum**
phenology, lucerne fields, USA 1469
prey, *Acyrtosiphon pisum* 1469
- Amaranthus quitensis**, natural enemies, *Notiobia cupripennis* 2183
- Amaranthus retroflexus**, *Harpalus rufipes* 89
- Amblyomma**, parasitoids, *Exodipagus* 1025
- Amblyomma americanum**
pathogens
Heterorhabditis bacteriophora 1771
Steinernema carpocapsae 1771
Steinernema feltiae 1771
Steinernema glaseri 1771
Steinernema riobrave 1771
- Amblyomma cajennense**
pathogens
Heterorhabditis bacteriophora 1771
Steinernema carpocapsae 1771
Steinernema feltiae 1038, 1771
- Amblyomma cajennense** cont.
pathogens cont.
Steinernema glaseri 1771
Steinernema riobrave 1038, 1771
- Amblyomma maculatum**
pathogens
Heterorhabditis bacteriophora 1771
Steinernema carpocapsae 1771
Steinernema feltiae 1038, 1771
Steinernema glaseri 1771
Steinernema riobrave 1038, 1771
- Amblyospora salinaria**
hosts, *Culex salinarius* 1174
new species 1174
- Amblypelta lutescens**, predators, *Oecophylla smaragdina* 908
- Amblyseius**, insecticides, toxicity 2530
- Amblyseius andersoni**
acaricides, nontarget effects 870
apple orchards
France 1572
Italy 870
USA 185
behaviour 2022
cannibalism 2691
feeding behaviour 2697
insecticides, nontarget effects 1826
Panonychus ulmi, biological control, France 1572, 1584
prey
Panonychus citri 317
Phytonemus pallidus 862
temperate fruit orchards, Spain 861
- Amblyseius badryi**, life history 2629
- Amblyseius barkeri**
behaviour 2022
cannibalism 2691
- Amblyseius bibens**, prey, *Tetranychus cinabarinus* 1937
- Amblyseius citrifolius**
prey
Mononychellus tanajao 1193
Phyllocoptruta oleivora 1193
Scirtothrips manihoti 1193
Tetranychus urticae 1193
- Amblyseius degenerans**
Frankliniella occidentalis, biological control 133
prey, *Frankliniella occidentalis* 586
- Amblyseius charai**, prey, *Tetranychus kanzawai* 674
- Amblyseius fallacis**
apple orchards 1569
behaviour 2022
cannibalism 2691
cypermethrin, nontarget effects 1569
development 1191
Panonychus citri, biological control, USA 317
Panonychus ulmi, biological control, USA 180
Phytonemus pallidus, biological control 862
prey
Eriophyidae 547
Panonychus ulmi 1569
Phytonemus pallidus 862
Tetranychidae 547, 1569
Tetranychus kanzawai 2632
Tetranychus urticae 1191
- Amblyseius largoensis**, *Citrus* orchards, Cuba 2285
- Amblyseius longispinosus**
apple orchards, Korea Republic 1828
prey
Aponychus corpuzae 325
Tetranychus kanzawai 2632
Tetranychus urticae 1224
tebufenpyrad, toxicity 1828
- Amblyseius makuwa**, prey, *Tetranychus kanzawai* 674
- Amblyseius nicholsi**
prey, *Eotetranychus kankitus* 1192
reproduction 1192
- Amblyseius obtuserellus**, prey, *Tetranychus kanzawai* 674
- Amblyseius okinawanus**, pear orchards, Japan 173
- Amblyseius orientalis**
pear orchards, Japan 173
prey, *Aculus schlechtendali* 1577

- Amblyseius parki*, pear orchards, Japan 173
Amblyseius sojaensis, pear orchards, Japan 173
Amblyseius tsugawai, pear orchards, Japan 173
Ambrosia artemisiifolia
 biological control, *Tarachidia candefacta* 1803
 natural enemies, *Zygogramma bicolorata* 417
 pathogens, *Sclerotinia sclerotiorum* 1788
Ambrosia grayi
 biological control, *Rhizoctonia solani*, USA 397
 cotton, USA 397
Ametadoria misella
 granulosis viruses, interspecific competition 874
 hosts, *Harrisina metallica* 874
 vineyards, USA 874
Amitraz
 nontarget effects
Amblyseius andersoni 870
Anthocoris nemoralis 2525
 beneficial arthropods 942
Amitus bennetti
 host-seeking behaviour 2660
 hosts, *Bemisia argentifolii* 2015, 2660
 oviposition 2015
Amitus macqowni
 hosts
Aleurotrachelus socialis 84
Trialeurodes variabilis 84
Ampelomyces quisqualis
 antagonism
Erysiphe artemisiae 1510
Erysiphe cichoracearum 1510
 culture techniques 1152, 1510
 plant pathogenic fungi, biological control, Israel 1511
Amphimallon solstitialis
 biological control, *Heterorhabditis bacteriophora* 983
 lawns and turf, Germany 983
Amphimeris acridiorum, hosts, *Phaulacridium vittatum* 521
Amphion floridensis
 grapes, USA 849
 parasitoids, *Gnamptopelta obsidianator* 849
Amphobotrys ricini, biological control, *Teratosperma sclerotivora* 224
Ampulex compressa, hosts, *Periplaneta americana* 1782
Amrasca bigutula
 cotton, China 1661
 predators, *Chrysoperla carnea* 1907
Amyleois transitella
 almonds, USA 907
 biological control, *Bacillus thuringiensis* 907
 parasitoids, *Goniozus legneri* 2558
Anabaena cylindrica, hosts, *Culex pipiens pallens* 358
Anabaena subtropica, hosts, *Culex pipiens pallens* 358
Anacharis, temperate fruit orchards, New Zealand 846
Anagrapha falcifera, pathogens, nuclear polyhedrosis viruses 1225
Anagrus
 apple orchards, USA 863, 1843
 hosts, *Typhlocyba pomaria* 863
 insecticides, nontarget effects 1843
Anagrus delicatus, reproduction, models 1957
Anagrus, hosts, *Planococcus citri* 209
Anagrus agraeensis, keys 1889
Anagrus ananatis
Pheidole megacephala, interactions 1616
 pineapple plantations, USA 1616
Anagrus beneficans, keys 1889
Anagrus kamali, hosts, *Maconellicoccus hirsutus* 2617
Anagrus mirzai, keys 1889
Anagrus nigrescens, keys 1889
Anagrus subflaviceps, keys 1889
Anagrus swazeyi, keys 1889
Anaphes iole
 hosts, *Lygus* 481
 labelling 481
Anaphes iole cont.
Lygus, biological control 760
Anaphes listronoti
 antennae 2648
 hosts, *Listronotus oregonensis* 2648
 sex pheromones 1268
Anaphes victus
 antennae 2648
 hosts, *Listronotus oregonensis* 2648
Anarsia lineatella
 peaches, USA 866
 predators, *Formica aerata* 866
Anastatus
 hosts
Halys dentata 994
Leptoglossus phyllopus 2113
Oxya velox 1641
 rearing techniques 1866
Tessaratomia papillosa, biological control 217
Anastatus auriceps
 hosts, *Acrosternum aseadum* 772
 soybean fields, Brazil 772
Anastatus bifasciatus
 hosts, *Thaumetopoea pityocampa* 1698
Pinus nigra forests, Bulgaria 1698
Anastatus huangi
 hosts
Dendrolimus kikuchii 1892
Dendrolimus punctatus 1892
 new species, China 1892
Anastatus japonicus
 hosts, *Tessaratomia papillosa* 1909
Tessaratomia papillosa
 biological control
 China 885
 Hong Kong 1613
Anastatus meilingensis
 hosts
Dendrolimus kikuchii 1892
Dendrolimus punctatus 1892
 new species, China 1892
Anastatus semiflavus, hosts, *Mozena obtusa* 416
Anastrepha
 Mexico 953
 parasitoids
Aceratoneuromyia indica 953
Aganaspis pellenaroi 953
Biosteres longicaudatus 953
Doryctobracon areolatus 953
Doryctobracon crawfordi 953
Odontosema anastrephae 953
Pachycrepoides vindemmiae 953
Uletes anastrephae 953
Anastrepha alveata, parasitoids,
Doryctobracon areolatus 1615
Anastrepha bahiensis, parasitoids,
Doryctobracon areolatus 1615
Anastrepha fraterculus, parasitoids,
Doryctobracon areolatus 1615
Anastrepha leptozona, parasitoids,
Doryctobracon zeteki 2276
Anastrepha ludens
 parasitoids
Doryctobracon areolatus 1615
Doryctobracon crawfordi 1615
Anastrepha nunezae, parasitoids,
Doryctobracon zeteki 2276
Anastrepha obliqua, parasitoids,
Doryctobracon areolatus 1615
Anastrepha serpentina, parasitoids,
Doryctobracon zeteki 2276
Anastrepha striata
 guavas, Costa Rica 901
 parasitoids
Doryctobracon areolatus 901, 1615
Doryctobracon zeteki 2276
Anastrepha suspensa
 parasitoids
Biosteres longicaudatus 175, 2275
Coptera haywardi 1161
Dirhinus himalayanus 1161
Doryctobracon areolatus 2275
Spalangia gemina 1161
Uletes anastrephae 2275
 raspberries 175
Anax imperator, prey, *Culiseta longiareolata* 2429
Anaxarchus pardalinus, parasitoids, *Trichopoda giacomellii* 2616
Andricus kollari
 natural enemies 1678
Quercus, UK 1678
Aneleis cardoni
 lemon orchards, India 198
 prey
Chilades lajus 198
Papilio demoleus 198
Angaracris, biological control, *Nosema locustae*, China 758
Animal parasitic nematodes, hosts,
Trichosurus vulpecula 1729
Anisia serotina
 hosts, *Romalea microptera* 2624
 population dynamics 2624
Anisops bouvieri
 prey
Aedes 1753
Culex 1753
Anisops glauca, prey, *Culex quinquefasciatus* 1741
Anisopteromalus calandrae
 diatomite, nontarget effects 2531
 environmental factors 1962
 flour mills, Portugal 1726
 hosts
Callosobruchus chinensis 999, 1942, 2736
Ephesia kuehniella 1726
Prostephanus truncatus 338
Sitophilus oryzae 1104, 1962, 2531
Sitophilus zeamais 338
 longevity 1942
 maize grain, USA 340
 malathion
 nontarget effects 1846
 resistance 1104, 2030
 molecular genetics 1846
 molecular genetics 2030
 population dynamics 2736
Ankylopteryx octopunctata octopunctata,
 prey, *Stephanitis typicus* 1622
Annona muricata, *Philephedra tuberculosa*,
 Colombia 2280
Annona squamosa orchards
 beneficial insects, India 878
Scutellista caerulea, India 2282
Anomala cuprea
 pathogens
Metarhizium anisopliae 447
Steinernema kushidai 525
Anomala orientalis
 pathogens
Bacillus thuringiensis subsp. *japonensis* 1390
Heterorhabditis bacteriophora 1390
Steinernema glaseri 1390
Anomis flava
 biological control, South East Asia 700
 cotton, China 1661
Anopheles albanus, pathogens, *Bacillus thuringiensis* subsp. *israelensis* 350
Anopheles aquasalis
 integrated control, *Bacillus thuringiensis* subsp. *israelensis*, Venezuela 1742
 pathogens
Penicillium corylophilum 2431
Penicillium fellutanum 2431
Penicillium implicatum 2431
Penicillium janthinellum 2431
Penicillium viridicatum 2431
Penicillium waksmanii 2431
Anopheles arabiensis, biological control,
Bacillus sphaericus 351
Anopheles braziliensis, pathogens, *Bacillus sphaericus* 2421
Anopheles claviger, pathogenicity 1007
Anopheles culicifacies, pathogens,
Leucothecium emdenii 2422
Anopheles darlingi, pathogens, *Bacillus sphaericus* 1739, 2421
Anopheles dirus, pathogens, *Bacillus sphaericus* 1735
Anopheles funestus, biological control,
Bacillus sphaericus 351
Anopheles gambiae
 biological control
Bacillus sphaericus 351
 entomopathogenic bacteria, Burkina Faso 1733
 predators, *Procambarus clarkii* 2426

- Anopheles messeae*, pathogens, *Bacillus thuringiensis* subsp. *israelensis* 1016
- Anopheles multicolor*
predators 1738
Egypt 1738
- Anopheles nuneztovari*, pathogens, *Bacillus sphaericus* 1739, 2421
- Anopheles pharousis*
biological control, *Bacillus sphaericus* 351
predators 1738
Egypt 1738
- Anopheles pseudopunctipennis*
biological control
Romanomeris iyengari 1757
Mexico 2420, 2424
- Anopheles sinensis*, biological control, entomopathogenic bacteria, China 1754
- Anopheles stephensi*
pathogens
Bacillus thuringiensis 353
Bacillus thuringiensis subsp. *israelensis* 1751
Leucothecium emdenii 2422
predators, *Aplocheilus parvus* 1751
- Anopheles subpictus*, pathogens, *Leucothecium emdenii* 2422
- Anopheles tenebrosus*
predators 1738
Egypt 1738
- Anoplophora glabripennis*
biological control
Beauveria, China 1682
Steinernema carpocapsae 1394
Populus, China 1682
- Antagonists**
fungicides, nontarget effects 442
Gibberella fujikuroi, biological control 2120
plant pathogens, biological control 2065
- Antennae**, *Anaphes* 2648
- Antennopsis gallica**, hosts, *Reticulitermes flavipes* 2058
- Antheraea pernyi**
pathogens
Nosema 1916
Nosema bombycis 1916
- Antheraea proylei**
parasitoids
Blepharipa zebina 348, 1731
Exorista bombycis 348
- Antheraea yamamai**
pathogens
Nosema 1916
Nosema bombycis 1916
- Anthicus**, field crop fields, India 780
- Anthoridae**
crop fields, Hungary 17
pear orchards, Spain 854
pesticides, nontarget effects 138
prey, *Cacopsylla pyri* 854
tomato fields, USA 138
- Anthorcoris**, *Psylla*, biological control, Netherlands 2240
- Anthorcoris nemoralis**, amitraz, nontarget effects 2525
- Anthorcoris nemoralis**
Cacopsylla pyri, biological control, France 844
crop fields, Bulgaria 713
habitats, Netherlands 2262
insect pests, biological control, Belgium 177
insecticides, nontarget effects 2523
pear orchards
France 171
Greece 1581
Italy 2523
population dynamics 2262
prey
Cacopsylla pyri 1581, 2262, 2525
Cacopsylla pyricola 2262
Cacopsylla pyrisuga 2262
Tetranychus turkestanii 713
Tetranychus urticae 713
- Anthorcoris nemorum**
habitats, Netherlands 2262
hedges, France 633
population dynamics 2262
prey
Cacopsylla pyri 2262
- Anthorcoris nemorum** cont.
prey cont.
Cacopsylla pyricola 2262
Cacopsylla pyrisuga 2262
Frankliniella occidentalis 985
- Anthomyia liturata**, pathogens, Strongwell-sea castrans 2433
- Anthonomus grandis**
biological control, *Catolaccus grandis* 272
cotton, Mexico 272
ectoparasites, *Catolaccus grandis* 1263
parasitoids
Catolaccus grandis 1871, 1904, 2537
Coccinia grandis 482
- Anthonomus grandis grandis**
insecticides, nontarget effects 1845
parasitoids, *Catolaccus grandis* 1845
- Anthrenus verbasci**
biological control, *Laelius pedatus* 2410
stored products 2410
- Anticarsia gemmatilis**
biological control, Baculoviridae 1415
pathogens, nuclear polyhedrosis viruses 480, 2171
- Antitrogus consanguineus**
biological control, *Metarhizium anisopliae*, Australia 1642
sugarcane, Australia 1642
- Antitrogus parvulus**
biological control, *Metarhizium anisopliae*, Australia 1642
sugarcane, Australia 1642
- Aonidiella aurantii**
Citrus
Italy 1601
Turkey 1609
ectoparasites, *Hemisarcophaga cooremani* 1983
parasitoids, *Aphytis melinus* 593, 1271, 1601, 1609
predators, *Chilocorus bipustulatus* 1255, 1601
- Aonidiella orientalis**
biological control, *Chilocorus*, Australia 888
parasitoids
Aphytis melinus 200
Closterocerus phenacapsia 2108
Comperiella lemniscata 200
Encarsia citrina 200
pawpaws, Australia 200, 888
- Apanteles**
Cacyreus marshalli, biological control, Poland 1703
hosts
Deudorix isocrates 2281
Lepidoptera 747
Pelopidas mathias 42
insecticides, nontarget effects 1825
- Apanteles carpatius**
development 1728
hosts
Tinea pellionella 1728
Tineola bisselliella 1728
- Apanteles cypris**, hosts, *Cnaphalocrocis medinalis* 2604
- Apanteles deplanatus**
hosts
Chilo orichalcolielus 2592
Chilo partellus 2592
- Apanteles erevanicus**, *Gypsonoma aceriana*, biological control, Bulgaria 2352
- Apanteles fabiae**, hosts, *Hypomecis* 2399
- Apanteles fumiferanae**
hosts, *Choristoneura fumiferana* 950
Trichogramma minutum, interactions 950
- Apanteles galleriae**, hosts, *Galleria mellonella* 667
- Apanteles javensis**, hosts, *Pelopidas mathias* 42
- Apanteles kariyai**
granulosis viruses, interactions 2613
hosts, *Mythimna separata* 36, 1217, 1435
- Apanteles machaeralis**
hosts
Aphendala cana 994
Loboschiza koenigiana 994
- Apanteles minator**
hosts
Chilo orichalcolielus 2592
- Apanteles minator** cont.
hosts cont.
Chilo partellus 2592
- Apanteles oenone**, parasitoids, *Brachymeria pomonae* 599
- Aphaereta aotea**, hosts, *Hybopygia varia* 1024
- Aphaereta debilitata**, hosts, *Scatella stagnalis* 675
- Aphaereta minutus**, biological competition 582
- Aphanogmus**, hosts, *Galleria mellonella* 667
- Aphanogmus manilae**
fields, China 100
hosts, *Plutella xylostella* 100
- Aphanomyces**, biological control 1475
- Aphanomyces cochlioides**
biological control, *Pythium oligandrum* 239
sugarbeet 239
- Aphelinidae**
Hemiptera, biological control 716
taxonomic revisions, India 513
- Aphelinus**, polymerase chain reaction, detection 1851
- Aphelinus abdominalis**
hosts
Macrosiphum euphorbiae 604
Metopolophium dirhodum 604
Rhopalosiphum padi 604
Sitobion avenae 604
Macrosiphum euphorbiae, biological control, Switzerland 140
oviposition 604
- Aphelinus albipodus**
barley fields, USA 2148
development 2649
hosts
Aphididae 2649
Diuraphis noxia 740, 1851, 2148, 2583
temperature, China 2583
- Aphelinus asychis**
barley fields, USA 2148
development 2649
hosts
Aphididae 2649
Diuraphis noxia 1851, 2148
- Aphelinus chaonia**
hosts
Aphis fabae 2732
Aphis sambuci 2732
- Aphelinus gossypii**
development, melons 1544
hosts, *Aphis gossypii* 1544
- Aphelinus mali**
apple orchards, Australia 864, 867
hosts, *Eriosoma lanigerum* 864, 867
insecticides, nontarget effects 867
- Aphelinus varipes**, hosts, *Diuraphis noxia* 1851
- Aphelopus atratus**
hosts, *Zygina rhamnii* 2253
vineyards, Italy 2253
- Aphelopus serratus**
hosts, *Zygina rhamnii* 2253
vineyards, Italy 2253
- Aphendala cana**
parasitoids
Apanteles machaeralis 994
Fornicia 994
- Aphididae**
apples, USA 863
biological control, Chamaemyiidae 1357
cotton, China 1661
field crops, Switzerland 2111
Heracleum, biological control 404
integrated control 11
parasitoids
Aphelinus albipodus 2649
Aphelinus asychis 2649
Aphidius aquilus 643
Aphidius colemani 1277
Hymenoptera 1318
Praon flavinode 643
predators
Adalia bipunctata 1451
Brumoides suturalis 1374
Carabidae 754
Cheilomenes sexmaculata 1374
Coccinella septempunctata 1374

Aphididae cont.

predators cont.

- Coccinella transversalis* 1374
- Coleomegilla maculata* 1451
- Harmonia dimidiata* 1374
- Lycosidae 754
- predatory arthropods 863
- Syrphidae 2111
- Thea bisoctosata* 1374
- strawberries, Belgium 186

Aphidiinae, phylogeny 2031**Aphidius**

hosts

- Schizaphis graminum* 1461
- Sitobion avenae* 1461
- population dynamics 1461
- wheat fields
- Australia 751
- China 1461

Aphidius aquilus, hosts, Aphididae 643**Aphidius colemani**

- Aphidoidea, biological control 1538

Aphis gossypii

- biological control 135
- Italy 828
- Japan 2213
- arthropod pests, biological control 850
- dispersal, *Dendranthema grandiflora* greenhouses 316
- Diuraphis noxia*, biological control, Czech Republic 2139
- host-seeking behaviour 1258

hosts

- Aphididae 1277
- Aphis gossypii* 1153, 1530
- Myzus persicae* 1258, 1509, 2005
- insecticides, nontarget effects 1277
- kohlrabi fields, India 1509
- parasitoids, *Alloxysta victrix* 2005
- population dynamics 1509
- rearing techniques 1153
- searching behaviour 1277
- wheat fields, Egypt 1456

Aphidius eadyi, hosts, Aphidoidea 222**Aphidius ervi**

- Acyrtosiphon pisum*, biological control 71
- Aphidoidea, biological control 1538
- crop fields, UK 782
- development 565, 1250
- diapause 2041
- faba bean extracts, attractants 73
- growth regulators, nontarget effects 2041
- host-seeking behaviour 577, 2178, 2700

hosts

- Acyrtosiphon kondoi* 2155
- Acyrtosiphon pisum* 73, 577, 782, 1004, 1250, 2041, 2155, 2178, 2657, 2696
- Aphidoidea 222
- Sitobion avenae* 590, 1004, 2700
- Nepeta cataria* extracts, attractants 1987

parasitoids

- Alloxysta victrix* 590
- Dendrocerus carpenteri* 1004, 2696

Aphidius gifuensis, hosts, *Sitobion avenae*

2689

Aphidius matricariae

- climatic change 529
- hosts, *Myzus persicae* 529, 1509
- kohlrabi fields, India 1509
- population dynamics 1509

Aphidius nigripes, pathogens, *Verticillium lecanii* 1215**Aphidius picipes**, hosts, *Sitobion avenae*

2689

Aphidius pisivorus, hosts, *Acyrtosiphon pisum* 2657**Aphidius rhopalosiphi**

- fungicides, nontarget effects 1841
- hosts

- Aphidoidea 222, 1272
- Metopolophium dirhodum* 743
- Rhopalosiphum padi* 2703
- Sitobion avenae* 1315
- insecticides, toxicity 444
- pheromones, effects 1272
- pirimicarb, toxicity 1116
- semiochemicals 2703

Aphidius uzbekistanicus

hosts

- Metopolophium dirhodum* 50
- Rhopalosiphum padi* 50
- Sitobion avenae* 50

Aphidoidea

biological control

- Anthocoris nemoralis*, Belgium 177
- natural enemies 850
- South Pacific 10

parasitoids 1576, 2748

- Aphidius eadyi* 222
- Aphidius ervi* 222
- Aphidius rhopalosiphi* 222, 1272
- Diaeretiella rapae* 222
- Ephedrus plagiator* 222
- Praon myzophagum* 222
- Praon volucre* 222, 1272

pathogens, *Neozygites fresenii* 1653

pears 850

Belgium 177

predators

- Aphidoletes aphidimyza* 642
- Cheilomenes sexmaculata* 1446
- Coccinella septempunctata* 1446
- Orius sauteri* 189
- Syrphidae 502

Prunus, Portugal 1576**Aphidoletes**

Aphididae, biological control, Germany

1705

rose greenhouses, Germany 1705

Aphidoletes aphidimyza

Aphidoidea, biological control 1538

Aphis gossypii, biological control, Japan

2213

Aulacorthum solani, biological control,

Europe 310

distribution, Japan 642

greenhouses, Europe 310

maize fields, Spain 2132

population dynamics, *Prunus avium* plan-

tations, Italy 2354

prey

Aphidoidea 642

Hyalopteris pruni 2245*Myzus cerasi* 2354**Aphis craccivora**

biological control

Beauveria bassiana 142*Fusarium pallidoreseum*, India 2177

South East Asia 700

cowpeas, India 2177

cucumbers 142

grain legumes, India 777

lucerne, Argentina 2156

natural enemies 1488

parasitoids, *Lysiphlebus fabarum* 70

predators

Betasyrphus fletcheri 777, 2695*Betasyrphus linga* 777, 2695*Brunoides suturalis* 1944*Cheilomenes sexmaculata* 518, 777,

2179, 2588

Coccinella septempunctata 2588*Coccinella transversalis* 2179, 2588*Dideopsis aegrota* 2695*Eriopis connexa* 2156*Harmonia axyridis* 910*Hippodamia convergens* 910*Ischiodon scutellaris* 777, 2695*Paragus serratus* 777, 2695*Paragus yerburiensis* 2695

soyabeans 70

Aphis fabae

biological control

beneficial insects, Egypt 2199

Chrysoperla lucasina, France 107

ectoparasites, Erythraeidae 1063

globe artichokes, France 107

natural enemies 1488

parasitoids

Alloxysta 1100*Aphelinus chaonia* 2732*Lysiphlebus cardui* 1100*Pachyneuron aphidis* 1100pathogens, *Verticillium lecanii* 2721

predators

Adalia bipunctata 676*Coccinella undecimpunctata* 544*Episyrphus balteatus* 1992**Aphis fabae cont.**

weeds, Poland 1063

Aphis farinosa, predators, *Adalia bipunctata*

676

Aphis glycinesparasitoids, *Lysiphlebus fabarum* 70

soyabeans 70

Aphis gossypii

aubergines, India 137

biological control

Aphidius colemani 135

Italy 828

beneficial insects, Egypt 2199

Eleusine coracana 135*Harmonia axyridis* 143*Neozygites fresenii*, USA 258, 2336

parasitoids, Japan 2213

predators 1538

South East Asia 700

USA 259

cotton

Brazil 1649

USA 258, 940, 2336

cucumbers 143, 1538

Italy 828

Japan 2213

Cucurbitaceae, France 135

greenhouse crops, Switzerland 140

parasitoids

Aphelinus gossypii 1544*Aphidius colemani* 1153, 1530*Lysiphlebus testaceipes* 1530, 1649

pathogens

Erynia neoaphidis 940*Neozygites fresenii* 940, 2627*Paecilomyces griseoviridis* 508*Verticillium lecanii* 1092, 2721*Piper betle*

biological control, Acari, India 2315

India 2315

predators

Allothrombium ovatum 705*Cheilomenes sexmaculata* 518, 2588,

2687

Chrysoperla carnea 1658*Chrysoperla rufilabris* 494*Coccinella septempunctata* 2588*Coccinella transversalis* 2588*Coccinella undecimpunctata* 1658*Coccinellidae* 137*Orius* 1658*Orius strigicollis* 1402, 2620*Orius tanillius* 1402*Paederus alfieri* 1658

predatory arthropods 831

Scymnus 1658, 2627**Aphis nerii**, predators, *Cheilomenes**sexmaculata* 2687**Aphis pomi**

apples, Belgium 858

parasitoids, *Binodoxys angelicae* 858**Aphis sambuci**

parasitoids

Aphelinus chaonia 2732*Binodoxys angelicae* 2732*Praon abjectum* 2732

predators

Coccinellidae 2024*Episyrphus balteatus* 1992**Aphytis**

date orchards, Egypt 859

hosts, *Parlatoria blanchardii* 859**Aphytis aonidiae**, hosts, *Diaspidiotus**pernicius* 523**Aphytis lingnanensis**

acaricides, nontarget effects 207

orange orchards, Australia 207

Aphytis melinus

Citrus orchards

India 899

Italy 1601

foraging 1271

host-seeking behaviour 593

hosts

Aonidiella aurantii 593, 1271, 1601,

1609

Aonidiella orientalis 200*Coccioidea* 883

insecticides, nontarget effects 899

Turkey 883

- Aphytis mytilaspidis*, hosts, *Lepidosaphes ulmi* 865
- Aphytis proclia*, *Pseudaulacaspis pentagona*, biological control 176
- Aphytis yanonensis*, *Unaspis yanonensis*, biological control, France 884
- Apiomerus pictipes*, prey, Lepidoptera 1281
- Apion apricans*
biological control, *Bacillus thuringiensis* 919
field crops, Belarus 919
- Apion fulvipes*
biological control, *Bacillus thuringiensis* 919
field crops, Belarus 919
- Apion seniculus*
biological control, *Bacillus thuringiensis* 919
field crops, Belarus 919
- Apis mellifera*
dispersal, entomogenous fungi 916
insecticides, nontarget effects 2523
pear orchards, Italy 2523
- Aplocheilus parvus*, prey, *Anopheles stephensi* 1751
- Apoanagyrus lopezi*
cassava odours, effects 2018
hosts, *Phenacoccus manihoti* 788, 2189
nontarget effects, entomogenous fungi 2771
- Aponychus corpuzae*
bamboos 325
predators, *Amblyseius longispinosus* 325
- Apple orchards**
Ageniaspis fuscicollis, Germany 851
Amblyseius andersoni, Italy 870
Amblyseius longispinosus, Korea Republic 1828
Anagrus, USA 1843
Araneae
Hungary 1574
population dynamics, Czech Republic 1844
beneficial arthropods
Australia 864, 867
Czech Republic 1135
Switzerland 170
beneficial insects
China 856
Turkey 865
Carabidae, seasonal cycle, Hungary 1571
Hemisarcophyes coccophagus, New Zealand 1565
Hymenoptera, Spain 855
natural enemies
monitoring 1562
Russia 1562
USA 863
Neoseiulus californicus, Argentina 2247
Orius sauteri, China 189
parasitoids
Russia 837
Switzerland 178
Phytoseiidae
Brazil 853
Egypt 1578
France 1572
predatory arthropods, Spain 861
predatory mites 1569
USA 185
- Apple stores**, predatory mites, Poland 1715
- Apples**
Acari, Belgium 177
Aculus schlechtendali, Japan 1577
Aphis pomi, Belgium 858
arthropod pests, Australia 867
Botrytis cinerea 327
Cydia pomonella 183-184, 875
Canada 872
Epiphyas postvittana, New Zealand 845
Eriosoma lanigerum, Australia 864
insect pests, USA 863
Lepidoptera, Switzerland 178
Panonychus ulmi
Argentina 2247
France 172, 1572
Penicillium expansum, Spain 2241
plant diseases 332
plant pathogens 163, 326, 2238
- Apples cont.**
replant disease
biological control, *Bacillus subtilis*, Canada 1549
Canada 1549
Spilonota lechriaspis 847
Tetranychidae 1569
Yponomeuta malinellus, Germany 851
- Application**
Azospirillum brasilense 1420
Bacillus polymyxa 1420
Beauveria, coffee plantations, East Africa 1644
entomophilic nematodes
low volume sprayers 1508
sprayers 474
- Application methods**
Bacillus thuringiensis 1144
entomopathogens 1852
- Apricots**, *Penicillium expansum* 2239
- Aprostocetus*, hosts, *Dasineura gleditschiae* 313
- Aprostocetus affinis*
Carpinus betulus forests, Poland 2355
hosts, *Zygobbia carpinii* 2355
- Aprostocetus eriophyes*, hosts, *Cecidophyopsis ribis* 1579
- Aprostocetus hagenowii*
hosts
Periplaneta americana 649
Periplaneta australasiae 649
Periplaneta fuliginosa 649
- Aprostocetus strobilanae*
hosts, *Kaltenbachiola strobii* 972
Picea abies forests, Poland 972
- Aptesis grandis**
hosts, *Diprion jingyuanensis* 507
new species 507
- Aptus mirmicoides*
cucumber fields, Hungary 831
prey
Miridae 831
Tetranychus urticae 831
Thrips tabaci 831
- Aquatic invertebrates**, *Bacillus thuringiensis* subsp. *israelensis*, nontarget effects 2047
- Aquatic weeds**, biological control, insects, USA 439
- Arachnida**
pear orchards, Spain 854
prey, *Cacopsylla pyri* 854
- Arachniotus*, antagonism, *Fusarium solani* 2152
- Aradus cinnamomeus*
biological control, *Beauveria bassiana* 2360
Pinus sylvestris, Poland 2360
- Araneae**
apple orchards
Czech Republic 1135
Hungary 1574
Switzerland 170
Buchloe dactyloides habitats, USA 982
cotton fields
Egypt 1657
India 1659
crop fields 1412
grasslands, Turkey 2158
habitats 1413
insecticides, nontarget effects 857, 1447, 1844, 2520
intercropping, cotton fields, Australia 1655
maize fields, Spain 2132
orange orchards, Australia 1593
parasitoids, *Horismenus* 2419
pear orchards
Czech Republic 857
France 171, 2056
pesticides, nontarget effects 138, 744, 1574
plant pests, biological control 1413
pome fruits, insect pests, biological control, Hungary, books 2098
population dynamics 641
apple orchards, Czech Republic 1844
predators, *Iridomyrmex rufoniger* group 1593
prey
Coniatus tamarisci 418
- Araneae cont.**
prey cont.
Macrospium euphorbiae 1531
Matsucoccus thunbergianae 947
Myzus persicae 1531
Sogatella furcifera 741
rice fields
India 724, 1447
Pakistan 1437
sex pheromones, nontarget effects 1659
sugarcane fields, India 1633
tomato fields, USA 138
wheat fields, Germany 738
- Archips rosanus*
black currants, Poland 2250
parasitoids, *Pimpla turionellae* 2250
- Arctium minus*, *Aphis fabae*, Poland 1063
- Argentina**
entomophilic nematodes, host specificity 1946
Hymenoptera 1410
insect communities 2742
Neoseiulus californicus
apple orchards 2247
spatial distribution, strawberry greenhouses 2259
Notiobia cupripennis, soyabean fields 2183
Phyllocnistis citrella, biological control, *Ageniaspis citricola* 218
Sirex noctilio, biological control 2094
Solenopsis richteri, biological control, *Solenopsis daguerrei* 1776
Syrphidae, keys, fields 1458
- Argiope*, prey, Lepidoptera 747
- Argiope keyserlingi*, feeding behaviour 1265
- Argiope trifasciata*
feeding behaviour 1285, 1990
prey
Acrididae 1285
Drosophila 1285
Isoptera 1285
Tenebrio molitor 1285
- Argyrotaenia sphenoropa*
grapes, Uruguay 869
parasitoids
Trichogramma exiguum 869
Trichogramma pretiosum 869
- Arilus cristatus*, prey, *Mozena obtusa* 416
- Armilaria**
antagonists, *Trichoderma* 245
biological control, *Hypholoma fasciculare*, Poland 278
- Armilaria mellea*, forest trees, Poland 278
- Armilaria ostoyae*, forest trees, Poland 278
- Aroidothrips longistylus*
Piper betle
biological control, Acari, India 2315
India 2315
- Artemisia vulgaris*, *Erysiphe* 1510
- Arthrobotrys*, hosts, Nematoda 1308
- Arthrobotrys cladodes*, *Trichoderma viride*, interactions 2221
- Arthrobotrys conoides*, hosts, *Cooperia punctata* 1785
- Arthrobotrys dactyloides*
hosts
Heterodera schachtii 1336
Meloidogyne 148
Meloidogyne javanica 147, 1336
- Arthrobotrys haptotyla*
hosts
Heterodera schachtii 1336
Meloidogyne javanica 1336
- Arthrobotrys musiformis*, hosts, *Cooperia punctata* 1785
- Arthrobotrys oligospora*
Meloidogyne mayaguensis, biological control, Senegal 2228
Strongyloides papillosus, biological control 376
- Arthrobotrys robusta*
hosts, *Cooperia punctata* 1785
Nematoda, biological control, Brazil 1768
Strongyloides papillosus, biological control 379
- Arthrobotrys thaumasias*
hosts
Heterodera schachtii 1336
Meloidogyne javanica 1336

- Arthropod pests**, biological control, microbial pesticides 2439
- Arthropods**, entomogenous fungi, interactions 673
- Arytainilla spartiophila*, *Cytisus scoparius*, biological control 2485
- Aschersonia*, taxonomy 1888
- Aschitus zakeri*, new species 1180
- Ascogaster**
hosts, *Zeiraphera canadensis* 2371
Picea glauca forests, Canada 2371
- Ascogaster reticulatus*
Entomopoxvirus, interactions 638
hosts, *Adoxophyes* 638, 1286
learning 1286
- Ascogregarina taiwanensis*, hosts, *Aedes albopictus* 2428
- Ascospaera apis*, pathogens, *Bacillus atrophaeus* 1001
- Ascavirus*, hosts, *Lepidoptera* 2085
- Asecodes erxias**
aubergine fields, Japan 2220
hosts, *Liriomyza trifolii* 2220
population dynamics 2220
- Asobara tabida*
host-seeking behaviour 2001
hosts
Drosophila melanogaster 1977, 2741
Drosophila simulans 2001
reproduction, models 1957
- Asparagus**
Crioceris asparagi, Netherlands 102, 787
Fusarium oxysporum 1700, 2197
- Aspergillus**
antagonism
Fusarium oxysporum f.sp. *cumini* 320
Sclerotinia sclerotiorum 1344
- Aspergillus flavus*
almonds 905
antagonism, *Macrophomina phaseolina* 763
biological control, yeasts 905
culture techniques 1163
hosts
Chilo partellus 1939
Hyblaea pueria 957
Stephanitis typicus 1622
Thysanoplusia orichalcea 2620
- Aspergillus niger*
antagonists
Bacillus 1619
Bacillus subtilis 223
Pseudomonas fluorescens 1619
Trichoderma 2300
Trichoderma hamatum 1619
Trichoderma harzianum 1619
Trichoderma koningii 1619
Trichoderma longisporum 1619
Trichoderma viride 1619
Fusarium oxysporum f.sp. *melonis*, biological control 114
groundnuts 223, 2300
India 1619
hosts, *Meloidogyne incognita* 16
- Aspergillus parasiticus*
culture techniques 1163
hosts, *Pentalonia nigronervosa* 2397
- Aspergillus tamarii*, hosts, *Helopeltis antonii* 2293
- Aspidiotus nerii*
ectoparasites, *Hemisarcoptes cooremani* 1983
predators, *Chilocorus bipustulatus* 1255
- Aster*, *Chrysoperla carnea* 585
- Ataenius spretulus**
Lolium perenne, USA 2159
pathogens, *Bacillus* 2159
predators
Philonthus carbonarius 2159
Philonthus cognatus 2159
- Atellana papilio*, *Trichosurus* 1730
- Athelia*, antagonism, *Venturia inaequalis* 2236
- Athemistus howitti*, food plants, *Lantana camara* 415
- Athyrcia cinerea**
hosts, *Mamestra configurata* 1868, 1887
keys 1887
rearing techniques 1868
- Atta insularis*, pathogens, *Beauveria basiana* 2782
- Atta laevigata*, predators, *Canthon virens* 568
- Attractants**
Chrysoperla carnea 2669
Coleomegilla maculata 2669
- Aubergine fields**
Diadegma apostata, India 1529
Encarsia formosa, Egypt 1411
Hymenoptera, Japan 2220
Orius, Japan 1539
Pediobius foveolatus, seasonal abundance, India 1535
- Aubergines**
Acherontia styx 2219
Aphis gossypii, India 137
Bemisia tabaci, Egypt 1411, 1534
Epilachna vigintioctopunctata 2216
India 1535
insect pests, biological control 824
Leucinodes orbonalis, India 1541
Liriomyza trifolii, Japan 2220
Meloidogyne incognita 149, 835, 2233
Tetranychus urticae 821
Thysanoptera 2214
Verticillium dahliae 79, 130
- Aulacaspis rosarum**
predators
Chilocorus circumdatus 1910
Chilocorus hupehanus 1910
Chilocorus kuwanae 1910
Telsimia nigra centralis 1910
- Aulacaspis tubercularis**
biological control, *Cybocephalus binotatus*, South Africa 893
mangoes, South Africa 893
- Aulacidea pilosellae**
food plants, *Hieracium pilosella* 1800
Hungary 1800
- Aulacorthum nipponicum**, predators, *Cheilomenes sexmaculata* 518
- Aulacorthum solani**
Aphidoletes aphidimyza, biological control, Europe 310
biological control, predators 1538
cucumbers 1538
predators, *Cheilomenes sexmaculata* 518
roses, Europe 310
- Aureobasidium pullulans**, antagonism, *Botrytis cinerea* 1523-1524
- Australasia**, *Sirex noctilio*, biological control 2094
- Australia**
Ageniaspis citricola 1372
Alternanthera philoxeroides, biological control 438
beneficial arthropods, apple orchards 867
beneficial insects, wheat fields 751
Chrysanthemoides monilifera
biological control
Endophyllum osteospermi 392
Mesoclanis polana 2471
Heliothis, biological control 254
insect pests, biological control, *Metarhizium anisopliae* 1642
Isoptera, biological control, *Metarhizium anisopliae* 1368
Lantana camara, Hispinae 421
Melaleuca quinquenervia, biological control, *Eucrocoris suspectus* 2470
Mimosa pigra
biological control
Carmentis mimosa 1059
Neurostrota gunniella 1066
Nassella trichotoma, biological control 62, 422
predatory arthropods, intercropping, cotton fields 1655
Rubus, biological control, *Phragmidium violaceum* 2480
Trichostrogylus colubriformis, biological control, *Duddingtonia flagrans* 377-378
Ulex europaeus, biological control 428
weeds
biological control 389
fungi 275
- Australia (New South Wales)**
beneficial arthropods
apple orchards 864
orange orchards 1593
- Australia (New South Wales) cont.**
Scarabaeidae, biological control, parasitoids 1676
- Australia (Northern Territory)**
Oecophylla smaragdina, cashew plantations 908, 2292
Sida acuta, biological control, *Caliligrpha pantherina* 435
- Australia (Queensland)**
Aonidiella orientalis, biological control, *Chilocorus* 888
beneficial insects, orange orchards 207
Cryptostegia grandiflora, biological control, *Maravalia cryptostegiae* 2493
Helicoverpa armigera, biological control, pathogens 733
Ophiomyia lantanae, *Lantana* 1808
parasitoids, cotton fields 937
Parthenium hysterophorus, biological control, *Puccinia abrupta* 1791
- Australia (South Australia)**
rabbits, biological control, rabbit haemorrhagic disease virus 343
Trissolcus basalis 589
- Australia (Western Australia)**, *Emex australis*, biological control, *Brachycaudus rumexicolens* 1073
- Austria**
Agromyzidae, biological control, *Dacnusa sibirica* 311
Cephalcia abietis, biological control, *Steinernema feltiae* 2366
Melolontha melolontha, biological control, *Beauveria brongniartii* 2133
Nerene radiata, forest trees 976
Tripleurospermum perforatum, biological control, *Rhopalomyia* 1799
- Autographa californica**
pathogens
granulosis viruses 2203
nuclear polyhedrosis viruses 2203
- Autographa nigrisigna**, *Bacillus thuringiensis*, pathogenicity 1379
- Avena fatua**
biological control 2501
fungi, Australia 275
cotton, Australia 275
- Avermectin**, toxicity, *Ageniaspis citricola* 1608
- Averrhoa carambola**, Tephritidae, Brazil 891
- Avocados**, *Cylindrocylindrium* 880
- Azadirachta indica**, *Hypomecis*, India 2399
- Azadirachta indica extracts**
nontarget effects, *Trichogramma japonicum* 1127
nuclear polyhedrosis viruses, interactions 2516
toxicity, *Microvelia douglasi atrolineata* 1128
- Azadirachtin**
nontarget effects, *Beauveria brongniartii* 1115
Opius concolor 1122
toxicity
Ageniaspis citricola 1608
Chrysoperla carnea 1121
Cryptolaemus montrouzieri 1090
Podisus maculiventris 1120
- Azinphos-methyl**
nontarget effects
Anagrus 1843
Anthonomus grandis 1845
beneficial arthropods 867, 2520
beneficial insects 2523
Micromus tasmaniae 448
Neoseiulus californicus 2247
toxicity, predatory insects 1123
- Azocyclotin**, nontarget effects, *Amblyseius andersoni* 870
- Azolla filiculoides**
biological control, *Nymphula oblitalis*, Africa 1809
Stenopelmus rufinasus, biological control 1080
- Azospirillum**
antagonism
Fusarium 109
Pythium 109
Rhizoctonia 109

- Azospirillum brasilense**
antagonism, *Xanthomonas oryzae* pv. *oryzae* 1420
application 1420
- Azotobacter chroococcum**
antagonism
plant pathogens 1343
Urocystis agropyri 23
- Azotus perspicuosus**, *Pseudaulacaspis pentagona*, biological control 176
- Bacillus**
antagonism
Aspergillus niger 1619
Botrytis cinerea 1552, 2161
Magnaporthe grisea 722
Mycosphaerella fijiensis 195
plant pathogens 1341
Pythium mamillatum 2161
Pythium ultimum 2187
Rhizoctonia solani 2187
Septoria apicola 98
Bacillus thuringiensis, interactions 1955
biological control, plant pathogenic fungi 2162
Botrytis cinerea, biological control 1556
Fusarium oxysporum f.sp. *ciceris*, biological control 1476
Fusarium oxysporum f.sp. *vasinfectum*, biological control 252
Fusarium proliferatum, biological control, Taiwan 306
hosts
Ataenius spretulus 2159
Ixodes scapularis 372
Meloidogyne javanica 2638
Phloeospora maculans 1557
Phytophthora boehmeriae, biological control 250
Phytophthora capsici, biological control, India 323
plant diseases, biological control 115, 729
plant pathogens, biological control 302
postharvest decay, biological control, Korea Republic 322
Pseudomonas solanacearum, biological control 2310
- Bacillus amyloliquefaciens**
Alternaria radicina, biological control 1490
antagonism, *Rhizoctonia solani* 2209
- Bacillus atrophaeus**, hosts, *Ascosphaera apis* 1001
- Bacillus bombycis**, antagonism, *Rhodotorula gracilis* 2418
- Bacillus brevis**
antagonism
Botrytis cinerea 1527
Sphaerotheca fuliginea 1526-1527
- Bacillus cereus**
antagonism, *Pythium torulosum* 2208, 2312
formulations 80
genetics, genetic diversity 611
hosts
Cyclocephala 2587
Phyllophaga 2587
Trichoplusia ni 611
Meloidogyne incognita, biological control 2194
Pythium aphanidermatum, biological control 1473
Rhizoctonia solani, biological control 80
- Bacillus circulans**
antagonism
Phoma 1701
Trichoderma viride 1701
Trichothecium roseum 1701
- Bacillus coagulans**
antagonism
Phoma 1701
Trichoderma viride 1701
Trichothecium roseum 1701
- Bacillus licheniformis**, antagonism, *Pythium aphanidermatum* 818
- Bacillus megaterium**
antagonism
Cochliobolus pallescens 56
Setosphaeria rostrata 56
- Bacillus polymyxa**
antagonism, *Xanthomonas oryzae* pv. *oryzae* 1420
application 1420
gene transfer 2028
hosts, *Scirpophaga incertulas* 2028
- Bacillus popilliae**
hosts
Papuana huebneri 210
Papuana uninodis 1948
- Bacillus pumilus**
antagonism, *Botrytis cinerea* 168
formulations 80
Rhizoctonia solani, biological control 80
- Bacillus sphaericus**
antagonism, *Globodera pallida* 93
Culex, biological control 1011
Culex quinquefasciatus, biological control, China 1755
- Culicidae
biological control 351
Bacillus sphaericus 351
Burkina Faso 1733
China 1754
formulations 1012
hosts
Aedes aegypti 1752
Anopheles braziliensis 2421
Anopheles darlingi 1739, 2421
Anopheles dirus 1735
Anopheles nuneztovari 1739, 2421
Culex antennatus 1737
Culex pipiens 1744, 1750, 1752
Culex pipiens form *molestus* 1737
Culex quinquefasciatus 1735, 1756
Phlebotomus duboscqi 1040
Sergentomyia schwetzi 1040
molecular genetics 1750
soil, Brazil 1739
- Bacillus subtilis**
antagonism
Alternaria porri 2548
Alternaria solani 2548
Aspergillus niger 223
Colletotrichum capsici 811
Cryphonectria parasitica 219
Fusarium 109
Fusarium oxysporum 1339, 2325
Fusarium oxysporum f.sp. *ciceris* 768
Fusarium udum 1184
Macrophomina phaseolina 763
plant diseases 2757
plant pathogenic fungi 1338
Plasmiodiophora brassicae 655
Pleiochaeta setosa 2381
Puccinia psidii 1185
Pythium 109
Pythium ultimum 1522, 2325
Rhizoctonia 109
Rhizoctonia solani 19, 1630, 2188
Streptomyces scabies 2188
Thielaviopsis basicola 2325
Verticillium dahliae 79
Xanthomonas oryzae pv. *oryzae* 723
Xanthomonas vesicatoria 2548
apples, replant disease, biological control, Canada 1549
biological control, plant pathogenic fungi 2163
Fusarium oxysporum, biological control 2197
Fusarium oxysporum f.sp. *ciceris*, biological control 1476
Fusarium oxysporum f.sp. *lycopersici*, biological control, Egypt 2207
Fusarium udum, biological control 67
mass production 2548
Meloidogyne incognita, biological control 2194
Phoma medicaginis var. *pinodella*, biological control 767
Phytophthora nicotianae, biological control 123
plant pathogenic fungi, biological control 2196
Plasmiodiophora brassicae, biological control, India 99
Pythium aphanidermatum, biological control 1473
Rhizoctonia solani, biological control, India 27
- Bacillus subtilis** cont.
Sclerotium cepivorum, biological control 2195
survival, soil 2048
- Bacillus thuringiensis**
Amyelois transitella, biological control 907
application, models 2368
application methods 1144
bacteria, interactions 1955
Cacyleus marshalli, biological control, Poland 1703
Choristoneura fumiferana, biological control 2368
classification 2562
Cuba 1172
Culicidae, biological control, Hungary 1748
culture techniques 493, 498, 1164, 1875
Dioryctria abietella, biological control 2362
diversity, Spain 1319
dyes, interactions 1354
effects, *Microplitis croceipes* 2330
formulations 182, 249, 478
genetics, genetic diversity 611
grain stores, Canada 336
Helicoverpa, biological control 941
Helicoverpa armigera
biological control 1955
Australia 733
India 1484
- hosts
Adoxophyes 1144
Aedes aegypti 1013
Agrotis segetum 1951
Anopheles stephensi 353
Bombyx mori 2582
Bovicola ovis 1037
Camponotus compressus 2573
Chilo agamemnon 620
Choristoneura fumiferana 1304
Choristoneura rosaceana 2258
Chrysodeixis includens 249
Chrysomya albiceps 1019
Chrysomya megacephala 1764
Cnaphalocrocis medinalis 2619
Colaspidea atrum 1319
Culex quinquefasciatus 1734
Curculio nucum 1617
Dendrolimus superans 469
Earias vittella 2667
Helicoverpa armigera 1377, 1381, 2646
Helicoverpa zea 249, 266, 1438
Heliopsis virescens 249, 2600
Homona magnanima 1144
Leptinotarsa decemlineata 1319
Lucilia cuprina 1019
Metisa plana, Malaysia 923
Musca domestica 1019
Mythimna separata 1954
Ostrinia nubilalis 620, 1438
Phyllocnistis citrella 201
Plutella xylostella 1129, 1319
Scirpophaga incertulas 2619
Spodoptera exigua 249, 486, 1319
Spodoptera frugiperda 1438
Spodoptera litura 1377
Tipula oleracea 1319
Trichoplusia ni 611
insecticides, compatibility 1842
Lepidoptera, biological control, Chile 2357
man, safety 2753
mutants 2709
Mythimna unipuncta, biological control, USA 2144
Noctuidae, biological control 943, 2089
nontarget effects, parasitoids 1825
Pakistan 2619
pathogenicity, *Autographa nigrisigna* 1379
persistence, USA 679
Phthorimaea operculella, biological control 334
plant parasitic nematodes, biological control, reviews 15
Plutella xylostella
biological control 2400
China 2118

- Bacillus thuringiensis* cont.**
Plutella xylostella cont.
 biological control cont.
 Mauritius 104
 preservation 1168
 product development 661
 production 1172
 resistance, *Helicoverpa armigera*, China 453
 risk 2764
 soil
 Canada 336
 Korea Republic 1325
 stored products pests
 biological control 333
 UK 2407
 integrated control, reviews 2406
 strains 2584
 identification 1139
 Japan 2766
 Korea Republic 335
Thrips tabaci, biological control 702
 Tortricidae
 biological control 182
 New Zealand 1582
 toxicity
Diadromus collaris 1112
Oomyzus sokolowskii 450
 parasitoids 1093
Trichogramma chilonis 1114
Bacillus thuringiensis* subsp. *aizawai
 chitinases 1298
 formulations 477, 1349
 hosts
Culicoides nubeculosus 1298
Ephestia kuehniella 552
Spodoptera littoralis 1298
Trichoplusia ni 1349
Plutella xylostella, biological control 790
 soil, China 1350
Spodoptera frugiperda, biological control 477
Spodoptera litura, biological control, Japan 848
Bacillus thuringiensis* subsp. *boliviana
 hosts
Helicoverpa armigera 2712
Plutella xylostella 2712
Sitophilus oryzae 2712
Spodoptera exigua 2712
Spodoptera frugiperda 2712
Trichoplusia ni 2712
Bacillus thuringiensis* subsp. *canadensis,
 hosts, *Mamestra configurata* 336
Bacillus thuringiensis* subsp. *colmeri, soil,
 China 1350
Bacillus thuringiensis* subsp. *darmstadensis,
 soil, China 1350
Bacillus thuringiensis* subsp. *dendrolimus,
 antagonism, *Rhodotorula gracilis* 2418
Bacillus thuringiensis* subsp. *entomocidus,
 hosts, *Spodoptera littoralis* 1351
Bacillus thuringiensis* subsp. *galleriae,
 antagonism, *Rhodotorula gracilis* 2418
Bacillus thuringiensis* subsp. *guizangensis,
 soil, China 1350
Bacillus thuringiensis* subsp. *indiana,
 stored products pests, biological control 1722
Bacillus thuringiensis* subsp. *israelensis
Aedes aegypti
 biological control
 Malaysia 1743
 Thailand 357
Aedes vexans, biological control, Germany 1745
Anopheles aquasalis, integrated control, Venezuela 1742
Culex, biological control 1011
 Culicidae
 biological control
 Burkina Faso 1733
 China 1009, 1754
 Hungary 1747
 Italy 1746
 culture techniques 1859
 Diptera, biological control 1763
 enzymes 616
 formulations 1337
 hosts
Aedes aegypti 350, 1014, 1752
Bacillus thuringiensis* subsp. *israelensis
 hosts cont.
Aedes taeniorhynchus 2432
Anopheles albimanus 350
Anopheles messeae 1016
Anopheles stephensi 1751
Chironomus riparius riparius 2435
Chrysomya megacephala 1764
Culex nigripalpus 2432
Culex pipiens 1744, 1752
Culex quinquefasciatus 1140
Microchironomus deribae 2434
Polypedium nubifer 2434
Psectrocladius psilopterus 2435
Tanytarsus fimbriatus 2434
Tanytarsus horni 2434
 nontarget effects, aquatic invertebrates 2047
 pathogenicity, aquatic invertebrates 1007
 persistence, models 1140
 Simuliidae, biological control, West Africa 1749
Simulium chutteri, biological control, South Africa 1762
Bacillus thuringiensis* subsp. *japonensis
 hosts
Anomala orientalis 1390
Cyclocephala hirta 1390
Cyclocephala pasadenae 1390
Bacillus thuringiensis* subsp. *kenyae, hosts,
Mamestra configurata 336
Bacillus thuringiensis* subsp. *kurstaki
Camponotus compressus, biological control 2451
 destruxins, synergism 1333
 enzymes 616
Epilachna vigintioctopunctata, biological control 2216
 formulations 478, 1928
 gene transfer 2028
Helicoverpa armigera
 biological control 1540
 India 1484
Heliothis virescens, biological control, USA 2330
 hosts
Adoxophyes 659
Bombyx mori 622, 659, 1931
Chilo agamemnon 550
Choristoneura fumiferana 1931
Helicoverpa armigera 622
Homona magnanima 659
Mamestra configurata 336
Ostrinia furnacalis 739
Ostrinia nubilalis 550
Papilio glaucus 1335
Plutella xylostella 659
Podisus nigripinus 1928
Scirpophaga incertulas 2028
Spodoptera depravata 659
Spodoptera exigua 659
Spodoptera frugiperda 2716
Spodoptera litura 659
 Lepidoptera, biological control, Italy 799
Leucinodes orbonalis, biological control 1541
Lymantria dispar, biological control, USA 289
 nontarget effects, Lepidoptera 449
 nucleotide sequences 2716
Peribatodes rhomboidaria, biological control, Romania 181
Plutella xylostella, biological control 790, 795
 resistance, *Spodoptera frugiperda* 45
 soil, China 1350
Spodoptera littoralis
 biological control 2176
 Egypt 2153
 strains, Korea Republic 2711
 toxicity, beneficial insects 1118
 ultraviolet radiation, effects 659
Bacillus thuringiensis* subsp. *morrisoni,
 stored products pests, biological control 1722
Bacillus thuringiensis* subsp. *sotto
 hosts
Bombyx mori 1931
Choristoneura fumiferana 1931
Bacillus thuringiensis* subsp. *tenebrionis
 insect pests, biological control 919
Leptinotarsa decemlineata
 biological control 785
 USA 92
 nontarget effects, *Chauliognathus lugubris* 1132
Perillus bioculatus, synergism 785
Pyrrhalta luteola, biological control, Canada 284
Bacillus thuringiensis* subsp. *tenebrionis,
 hosts, *Pyrgoides tigrina* 2636
Bacillus thuringiensis* subsp. *thuringiensis
Camponotus compressus, biological control 2451
 insect pests, biological control 919
***Bacillus thuringiensis* toxins**, toxicity,
Chrysoperla carnea 1099
Bacteria
 antagonism
Botrytis cinerea 1523, 1554, 2238
Colletotrichum musae 194
Fusarium 1519
Penicillium expansum 2238
Phytophthora capsici 2574
Pseudomonas tolaasii 1710
Pythium 2210
Pythium ultimum 1472
Rhizoctonia solani 34, 2072
Xanthomonas oryzae pv. *oryzae* 2072
 antagonists, *Xanthomonas axonopodis* pv. *dieffenbachiae* 2379
Botrytis cinerea, biological control 116
Gibberella fujikuroi, biological control 2120
Heterodera glycines, biological control 77
 plant parasitic nematodes
 biological control 2785
 reviews 15
Ralstonia solanacearum, biological control 1861
Bactrocera correctae
 biological control, *Biosteres longicaudatus* 2035
 predators, *Pheropsophus hilaris sobrinus* 204
Bactrocera cucurbitae
 pathogens
Gladiolus virens 2234
Rhizoctonia solani 2234
Trichoderma viride 2234
Bactrocera dorsalis, parasitoids, *Biosteres arisanus* 1158
Bactrocera oleae, parasitoids, *Opius concolor* 1122
Bactrocera tryoni
 parasitoids, *Diachasmimorpha tryoni* 2635
 pathogens, *Metarhizium anisopliae* 538
Baculoviridae
Anticarsa gemmatilis, biological control 1415
 biological control, insect pests 1369
 culture techniques 2061
 formulations 1137, 2546
 hosts
Choristoneura fumiferana 2546
Choristoneura occidentalis 2546
Helicoverpa zea 710
Heliothis virescens 710
Plodia interpunctella 2778
Spodoptera frugiperda 524
 Noctuidae, biological control 2339
 temperature 524
Baculovirus, Noctuidae, biological control 274
Baculovirus oryctes, *Oryctes monoceros*,
 biological control, Tanzania 2307
Bagous americanus, aquatic plants, biological control, USA 437
Bagous hydrillae, aquatic weeds, biological control, USA 2504
Bagous rufimanus, *Trapa*, biological control, Asia 2506
Balansia oryzae
 antagonists
Trichoderma harzianum 443
Trichoderma longibrachiatum 443
Bamboos, *Aponychus corpusae* 325

- Bananas**
Aleurodicus dispersus, Costa Rica 2270
Colletotrichum musae 194
Fusarium oxysporum f.sp. *cubense* 1585
Mycosphaerella fijiensis 195
plant pathogens, biological control 197
postharvest decay 196
- Bangasternus orientalis**, *Centaurea solstitialis*, biological control, Italy 1798
- Barley**
Chromatomyia fuscus, Norway 742, 755, 2136
Diuraphis noxia, USA 2148
Erysiphe graminis 1426
Fusarium culmorum 2128
Slovakia 1421
Melolontha melolontha, Austria 2133
plant pathogenic fungi, Sweden 30
- Barley fields**
Hymenoptera, Norway 2136
parasitoids
Norway 742
USA 2148
- Baryscapus bruchophagi**
lucerne fields, Hungary 1470
separators 1470
- Baryscapus servadeii**
hosts, *Thaumetopoea pityocampa* 1698
Pinus nigra forests, Bulgaria 1698
- Baryscapus transversalis**
hosts, *Thaumetopoea pityocampa* 1698
Pinus nigra forests, Bulgaria 1698
- Basidiobolus**, cherry orchards, Denmark 2242
- Bathyplectes**, hosts, *Hypera punctata* 1362
- Bathyplectes anurus**, *Hypera postica*, biological control, USA 759
- Bathyplectes curculionis**
feeding behaviour 1989
Hypera postica, biological control, USA 759
- Bathyplectes stenostigmus**, *Hypera postica*, biological control, USA 759
- Batocera horsfieldi**, biological control, *Steinernema feltiae*, China 1669
- Beauveria**
application, coffee plantations, East Africa 1644
hosts, *Thecodiplosis japonensis* 2363
Hypothenemus hampei, biological control, East Africa 1644
Korea Republic 2363
stored products pests, biological control 2404
- Beauveria bassiana**
Alphitobius diaperinus, biological control 1053
Anoplophora glabripennis, biological control, China 1682
Aradus cinnamomeus, biological control 2360
Bemisia argentifolii, biological control, USA 260
benomyl, fungicide tolerance 1833
Camponotus compressus, biological control 2451
Cerace stipitata, biological control, China 1681
control, *Parocneria orientalis* 1695
Cornitermes cumulans, biological control, Brazil 2517
Cuba 2782
culture techniques 490, 1167
Dasychira melli, integrated control, China 1694
Dendrolimus punctatus, biological control, China 1667
differentiation 382
dyes
effects 1353
interactions 1354
toxicity 2773
electrophoresis, strains 1850
entomophilic nematodes, interactions 2730
enzymes 2038
Epilachna vigintioctopunctata, biological control 2216
Frankliniella occidentalis
biological control 984
Morocco 709
- Beauveria bassiana** cont.
Frankliniella occidentalis cont.
biological control cont.
USA 314, 709
genetic variation, USA 2034
germination 1667
growth 1214
Helicoverpa armigera, biological control 778
Hemiptera, biological control 142
Heterotermes tenuis, biological control, Brazil 928
hosts
Acanthoscelides obtectus 683
Aedes aegypti 1736
Agonum dorsale 753
Aleurothrix floccosus 1134
Alphitobius diaperinus 380, 382, 2034
Atta insularis 2782
Bembidion lampros 753
Bemisia argentifolii 533, 2596
Blattella germanica 2440
Boophilus microplus 1043
Camponotus compressus 2573
Castrina penelope 212
Coleomegilla maculata 2034
Cylas formicarius 2782
Cylas formicarius elegantulus 1938
Delia radicum 2200
Dendrolimus punctatus 1220, 1380
Diaprepes abbreviatus 466
Dicladispa armigera 1167
Dioryctria horneana 2782
Dipetalogaster maxima 1041
Diprion pini 1689
Drosicha mangiferae 1590
Erannis bajaria 683
Galleria mellonella 683, 1238, 1303
Helicoverpa armigera 2646
Hippodamia convergens 1913
Holotrichia consanguinea 1934
Hypothenemus hampei 2083
Lachnopus sparsimiguttatus 2782
Leptinotarsa decemlineata 86, 683, 1238
Leucoptera malifoliella 1210
Lissorhoptrus oryzophilus 2149
Megalurothrips sjostedti 1209, 2599
Melanoplus sanguinipes 1908
Meloidogyne incognita 153, 557
Myzus persicae 1925, 2782
Nephotettix virescens 2134
Panstrongylus herreri 1041
Pentalonia nigronervosa 2394
Periplaneta americana 1781
Plutella xylostella 542, 2781
Rhipicephalus sanguineus 1774, 1783
Rhodnius prolixus 371, 1041, 1773
Rhodnius robustus 1041
Rhyzopertha dominica 2149
Sitona lineatus 2170, 2730
Sitophilus oryzae 2149
Sitophilus zeamais 749
Spodoptera frugiperda 2782
Tetranychus urticae 2615
Triatoma brasiliensis 1041
Triatoma infestans 1041, 1769-1770, 2438
Triatoma leucularia 1041
Triatoma picturata 1041
Triatoma williamsi 1041
Tribolium castaneum 2149
imidacloprid, nontarget effects 466
insecticides
synergism 2360
toxicity 1105
insects, nontarget effects 2771
Lymantriidae, biological control, China 1662
Metarhizium flavoviride, interactions 1908
Monochamus alternatus, biological control 2344
New Zealand 720
nontarget effects
Cales noacki 1134
Eretmocerus 1101
Orthoptera, biological control, Mali 1110
Parocneria orientalis, biological control, China 1695
- Beauveria bassiana** cont.
Plutella xylostella
biological control
Japan 1503
USA 103
poultry housing, USA 382
Rhytidodera bowringii, biological control, China 205
sporulation 371, 1773, 2438
Thrips tabaci, biological control 702
Toxoptera citricidus, biological control, USA 2269
Triatoma infestans, biological control 1778
ultraviolet radiation, effects 2320
- Beauveria brongniartii**
Anoplophora glabripennis, biological control, China 1682
Camponotus compressus, biological control 2451
hosts
Blattella germanica 2440
Camponotus compressus 2573
Helicoverpa armigera 1381
Holotrichia consanguinea 1934
Pentalonia nigronervosa 2394
Melolontha, biological control, Europe 648
Melolontha melolontha, biological control, Austria 2133
pesticides, nontarget effects 1115
- Behaviour** Papers on specific types of behaviour, such as host preferences, predation, reproductive behaviour etc. are indexed separately under these headings.
Agrias fuscicollis 851
Coccinellidae 2692
Cotesia plutellae 1284
Heterorhabditis, models 2659
Phytoseiidae 2022
Phytoseiulus persimilis 2701
Pterostichus cupreus 1289
Pterostichus melanarius 1289
Pterostichus niger 1289
Schizotetranychus longus 1961
Trichomalopsis apantelocetena 1999
- Belarus**, plant diseases, biological control 656
- Belgium**
Acari, biological control, *Typhlodromus pyri* 177
Aleyrodidae
biological control
Paecilomyces fumosoroseus 136
parasitoids 1537
cucumbers 136
Hymenoptera, tomato greenhouses 1537
insect pests, biological control,
Anthrenus nemoralis 177
Macrosiphum euphorbiae, biological control, Coccinellidae 187
predatory mites, *Buxus sempervirens* 987
strawberries, integrated pest management 2235
Tetranychus urticae, biological control, Acari 177
Trialeurodes vaporariorum, biological control, *Encarsia formosa* 177
- Bembidion lampros**
dispersal 2019
mortality 1945
pathogens
Beauveria bassiana 753
Paecilomyces farinosus 753
- Bembidion quadrimaculatum**, fields, USA 13
- Bemisia**
biological control, USA 261
cotton, USA 261
parasitoids
Encarsia formosa 1986
Encarsia hispida 1322
Encarsia meritoria 1322
Encarsia nigricapitata 1322
Encarsia pergandiella 1322
Eretmocerus 1322
predators
Orius strigicollis 1402
Orius tantillus 1402

Bemisia argentifolii

- biological control
 - entomogenous fungi, USA 260
 - Paecilomyces fumosoroseus* 703
 - Japan 822
- cotton 2338
- USA 260, 271
- Euphorbia pulcherrima*, biological control 989
- greenhouse crops 703
- melons, USA 1545
- parasitoids

- Amitus bennetti* 2015, 2660
- Encarsia nigricephala* 83
- Encarsia pergandiella* 83, 2338, 2631
- Encarsia quaintancei* 83
- Encarsia strenua* 83
- Eretmocerus* 83
- Eretmocerus eremicus* 271, 1545, 2586
- Eretmocerus mundus* 1915, 2338
- Eretmocerus orientalis* 1830

pathogens

- Beauveria bassiana* 533, 2596
- Paecilomyces farinosus* 533, 2596
- Paecilomyces fumosoroseus* 533, 1507, 1872
- Verticillium lecanii* 2596

poinsettias 989

predators

- Chrysoperla rufilabris* 494
- Deraeocoris nebulosus* 548
- Frankliniopsis vespiformis* 564
- sweet potatoes, USA 83
- tomatoes, Japan 822

Bemisia tabaci

biological control

- Beauveria bassiana* 142
- beneficial insects, Egypt 2199
- Encarsia formosa*, Egypt 1411
- Macrolophus caliginosus* 1709
- natural enemies, Egypt 1534
- parasitoids, Belgium 1537

cotton, Australia 937

crops, Egypt 1411

cucumbers 142

food plants, Egypt 1534

Gerbera 1709

natural enemies, Cuba, reviews 1419

parasitoids

- Encarsia* 937
- Encarsia davidi* 665
- Encarsia formosa* 2554
- Encarsia hamoni* 1894
- Encarsia inaron* 665
- Encarsia lutea* 607, 665
- Encarsia mineoi* 665
- Encarsia nigricephala* 75
- Encarsia pergandiella* 75
- Eretmocerus* 937
- Eretmocerus corni* 665
- Eretmocerus diversiciliatus* 665
- Eretmocerus mundus* 607, 665

pathogens

- Verticillium fusisporum* 1949
- Verticillium lamellicola* 1949
- Verticillium lecanii* 1949, 2601
- Verticillium psalliotae* 1949

Phaseolus vulgaris, Honduras 75

predators

- Chrysoperla carnea* 607
- Coccinella undecimpunctata* 607
- Serangium parcesetosum* 1964
- Typhlodromus negevi* 1959
- tomatoes, Belgium 1537

Beneficial arthropods

- cotton fields, USA 936, 942
- crop fields 1412
- fenitrothion, nontarget effects 1847
- insecticides, nontarget effects 894, 942, 1091, 2277
- Metarhizium anisopliae* var. *acridum*, nontarget effects 1847
- orchards, spatial distribution 2021
- pear orchards, France 2056
- pesticides, nontarget effects 1135
- Ziziphium mauritiana* orchards, China 894

Beneficial insects

- apple orchards, China 856
- cotton fields
- sampling 2343

Beneficial insects cont.

cotton fields cont.

- USA 268
- insecticides, nontarget effects 268
- insecticides, toxicity 457
- pesticides, nontarget effects 1102
- pheromones 2800
- stored products pests, biological control, UK 2407
- Vochysia guatemalensis* plantations, Costa Rica 965
- wheat fields, Slovakia 1460

Benomyl

- fungicide tolerance, *Beauveria bassiana* 1833
- nontarget effects
 - entomogenous fungi 2519
 - Fusarium oxysporum* 1097
 - Trichoderma* 1096
 - Trichoderma koningii* 1822

Benzoimate, nontarget effects, *Amblyseius**andersoni* 870**Bertiella trichosuri**, hosts, *Trichosurus* 1730**Betasyphus fletcheri**

- India 777
- prey, *Aphis craccivora* 777, 2695

Betasyphus linga

- India 777
- prey, *Aphis craccivora* 777, 2695

Bethoidea, fields, Indonesia 12**Bethylidae**, biology 2634**Betula**, Eriocraniidae, Central Europe 2347**Betula forests**, *Cyzenis albicans*, Canada 1570**Betula pubescens ssp. czerepanovii**, *Epirrita autumnata*, Finland 2358**Bifenthrin**

- toxicity
 - Episyrphus balteatus* 1117
 - Eretmocerus orientalis* 1830

Bifidobacterium, antagonism, *Fusarium oxysporum* f.sp. *cuminii* 321**Binodoxys angelicae**

hosts

- Aphis pomi* 858
- Aphis sambuci* 2732

Bioassays, *Chrysoperla carnea*, synthetic diets 1099**Biological competition**, parasitoids 582**Biological control**

- Abutilon theophrasti*, *Colletotrichum coccodes* 401
- Acacia*, Alydidae 414
- Acari

books 2799

Cheyletus eruditus 1724*Eotetranychus willamettei*, USA 1564*Typhlodromus occidentalis*, USA 1564*Typhlodromus pyri*, Belgium 177Acrididae, *Nosema locustae*, China 758Acridoidea, *Metarhizium anisopliae* 1366*Acrotylus blondeli*, *Metarhizium*, Niger 2779*Acyrtosiphon pisum*, natural enemies 71*Adelges tsugae*, *Pseudoscyrnus tsugae*, USA 974*Aedes aegypti**Bacillus thuringiensis* subsp. *israelensis*

Malaysia 1743

Thailand 357

fishes, Thailand 357

Mesocyclops longisetus, Mexico 361, 1010*Aedes vexans*, *Bacillus thuringiensis* subsp. *israelensis*, Germany 1745*Agrobacterium rhizogenes*, *Agrobacterium* 220*Agrobacterium tumefaciens**Agrobacterium radiobacter* 2288*Pseudomonas* 161Agromyzidae, *Dacnusa sibirica*, Austria 311*Aleurocanthus spiniferus*, *Encarsia smithi*, South Africa 1605*Aleurothrix floccosus*, *Cales noacki*, Greece 1612

Aleyrodidae

Encarsia formosa 7*Macrolophus caliginosus* 1709**Biological control cont.**

Aleyrodidae cont.

Paecilomyces fumosoroseus

Belgium 136

Japan 822

parasitoids, Belgium 1537

Alismataceae, *Rhynchosporium alismatis* 2502*Alphitobius diaperinus*, *Beauveria bassiana* 1053*Alternanthera philoxeroides**Agasicles hygrophila*, New Zealand 1812

Australia 438

Alternaria radicina, bacteria 1490*Alternaria ricini*, *Pseudomonas fluorescens* 911*Ambrosia artemisiifolia*, *Tarachidia candefacta* 1803*Ambrosia grayi*, *Rhizoctonia solani*, USA 397*Amphobotrys ricini*, *Teratosperma sclerotivora* 224*Amyeloidis transiella*, *Bacillus thuringiensis* 907*Anopheles pseudopunctipennis**Romanomermis iyengari* 1757

Mexico 2420, 2424

Anoplophora glabripennis, *Beauveria*, China 1682*Anthonomus grandis*, *Catolaccus grandis* 272*Anticarsia gemmatilis*, *Baculoviridae* 1415*Aonidiella orientalis*, *Chilocorus*, Australia 888*Aphanomyces* 1475

Aphididae

Aphidoletes, Germany 1705*Chamaemyiidae* 1357

Aphidoidea, predators 1538

Aphis craccivora, *Fusarium pallidoreum*, India 2177*Aphis fabae*, *Chrysoperla lucasina*, France 107*Aphis gossypii**Aphidius colemani* 135

Italy 828

Eleusine coracana 135*Harmonia axyridis* 143*Neozytetes fresenii*, USA 258, 2336

parasitoids, Japan 2213

USA 259

apples, replant disease, *Bacillus subtilis*, Canada 1549

aquatic plants, insects, USA 437

aquatic weeds, insects, USA 439, 2504

Aradus cinnamomeus, *Beauveria bassiana* 2360*Armillaria*, *Hypholoma fasciculare*, Poland 278

arthropod pests

microbial pesticides 2439

natural enemies 850

Piper betle, Acari, India 2315

pome fruits

Europe 2252

reviews 2252

Aspergillus flavus, yeasts 905

aubergines, insect pests 824

Aulacaspis tubercularis, *Cybocephalus binotatus*, South Africa 893*Aulacorthum solani*, *Aphidoletes aphidimyza*, Europe 310*Azolla filiculoides*, *Nymphula oblitalis*, Africa 1809*Bactrocera correcta*, *Biosleres longicaudatus* 2035

bananas, plant pathogens 197

Batocera horsfieldi, *Steinernema feltiae*, China 1669*Bemisia*, USA 261*Bemisia argentifolii*

entomogenous fungi, USA 260

Paecilomyces fumosoroseus 703*Bemisia tabaci**Encarsia formosa*, Egypt 1411

natural enemies, Egypt 1534

Biomphalaria pfeifferi, *Pila ovata* 373

books 1399, 2797

Biological control cont.

- Boophilus microplus*
Metarhizium anisopliae 1036
 Mexico 1780
Verticillium lecanii, Cuba 1777
Botrytis, *Ulocladium atrum* 706
Botrytis cinerea
 antagonists 308, 2790
Bacillus 1556
 bacteria 116
 fungi, Denmark 119
Trichoderma, Norway 167
Trichoderma harzianum 2
 Croatia 1560
Trichoderma viride 765, 2167
Ulocladium atrum 1151
 yeasts 116
Bruchus pisorum, *Uscana senex* 1719
Bursaphelenchus xylophilus, Japan 294
Cacopsylla pyri
Anthracinus nemoralis, France 844
 natural enemies, France 844
Cacopsylla pyricola, *Formica neoclara*, USA 2251
Cacyreus marshalli, parasitoids, Poland 1703
Callosobruchus maculatus, parasitoids, West Africa 2411
Calystegia sepium, *Stagonospora* 1793
Camponotus compressus, pathogens 2451
Carduus nutans
 models 432
Rhinocyllus conicus, New Zealand 432
Carduus thomeri, fungi 395
Celtisaspis zhejiangana, natural enemies, China 298
Centaurea diffusa, *Sphenoptera jugoslavica*, USA 405
Centaurea maculosa, *Agapeta zoegana*, USA 2495
Centaurea solstitialis
Bangasternus orientalis, Italy 1798
Chaetorellia, USA 2472
 insects, USA 2497
Puccinia jaceae 1062
Cephalcia abietis, *Steinernema feltiae*, Austria 2366
Cerace stipitata, *Beauveria bassiana*, China 1681
Ceroplastes japonicus, *Chilocorus kuwanae*, Italy 966
Chilo auricilius
Sturmiopsis inferens, India 1637
Trichogramma chilonis, India 1631
Chilo infuscatellus, granulosis viruses, India 927
Chilo partellus, *Metarhizium anisopliae*, Kenya 2137
Chloropulvinaria polygonata, *Cryptolaemus montrouzieri*, India 877
Chloropulvinaria psidii, *Cryptolaemus montrouzieri*, India 2271
Choristoneura fumiferana
Bacillus thuringiensis 2368
 models 479
Trichogramma minutum, Canada 950
Chromolaena odorata
Acalitus adoratus, India 411
Procecidochares connexa, Indonesia 423
Chrysanthemoides monilifera
Endophyllum osteospermi
 Australia 392
 South Africa 392
Mesoclanis polana, Australia 2471
Chrysodeixis chalcites, *Podisus maculiventris*, Netherlands 820
Cirsium, *Rhinocyllus conicus*, USA 420
Cirsium arvense, *Sclerotinia sclerotiorum*, New Zealand 2469
Closteria anastomosis, *Trichogramma dendrolimi*, China 960
Coccinia grandis, *Acythopeus*, USA 1065
 Coleoptera 231
Heterorhabditis bacteriophora 983
Convolvulus arvensis
Aceria malherbae, North America 2478
Phomopsis convolvulus 394, 2461
 Canada 2500

Biological control cont.

- Convolvulus arvensis* cont.
Stagonospora 1793
Stagonospora convolvuli, Switzerland 429
Cooperia oncophora
Duddingtonia flagrans 2447
 nematophagous fungi 2448
Cornitermes cumulans, entomogenous fungi, Brazil 2517
Corticium rolfii, antagonists 1477
Cosmopolites sordidus, entomophilic nematodes, Venezuela 2077
 cotton, weeds, USA 265
 cotton pests, *Rhynchoris marginatus* 1660
Crioceris asparagi, *Tetrastichus coerules*, Netherlands 102, 787
 crop pests, parasitoids 2774
Cryphonectria cubensis, Brazil 956
Cryphonectria parasitica 958
Cryphonectria parasitica 959, 2287
Cryptostegia grandiflora, *Maravalvia cryptostegiae*, Australia 2493
Ctenarytaina eucalypti, *Psyllaephagus pilosus*, Irish Republic 990
Culex, *Bacillus* 1011
Culex quinquefasciatus
Bacillus sphaericus, China 1755
Clarias fuscus, China 356
 Culicidae
Bacillus sphaericus 351
Bacillus thuringiensis, Hungary 1748
Bacillus thuringiensis subsp. *israelensis*
 China 1009
 Hungary 1747
 Italy 1746
 entomopathogenic bacteria
 Burkina Faso 1733
 China 1754
 Curculionidae, *Steinernema*, USA 2274
 Cyathostominae 374
Cydia pomonella
 entomophilic nematodes 875, 1567
 granulosis viruses, France 712, 860
Trichogramma platneri, Canada 872
Cynoglossum officinale, *Erysiphe cynoglossi*, Canada 2464
Cyperus rotundus, *Cercospora caricis* 1058
Cyrtomenus bergi, *Heterorhabditis bacteriophora*, Colombia 1493
Cytisus scoparius, insects 2485
Damasonium minus, *Rhynchosporium alismatis* 433, 2508
Datura stramonium, *Alternaria crassa* 400
Delia, entomogenous fungi 805
Dendrolimus punctatus
Beauveria bassiana, China 1667
 China 299
 Dermestidae, *Laelius pedatus* 2410
Dermolepida albobirtum, *Metarhizium* 1636
Diaspididae, *Hemisarcophytes coccophagus*, New Zealand 1565
Dioryctria abietella, *Bacillus thuringiensis* 2362
 Diptera 2437
Bacillus thuringiensis subsp. *israelensis* 1763
Diuraphis noxia
Aphidius colemani, Czech Republic 2139
 Coccinellidae, China 46
Paecilomyces fumosoroseus 1929
Dysaphis plantaginea, *Adalia bipunctata*, Switzerland 1580
Ecdytophloa aurantianum, *Trichogramma pretiosum* 896
Echinocloa crus-galli, *Exserohilum monoceras*, China 2121
Echinocloa oryzoides, *Exserohilum monoceras* 1789
Eichhornia crassipes 2509
Neochetina, USA 2503, 2505
Eleocharis kuroguwai
Epicoccossorus nematosporus 1811
Nimbya scirpicola 1057

Biological control cont.

- Emex australis*, *Brachycaudus rumexicolens*, Australia 1073
Ephestia kuehniella
Blattisocius tarsalis, Scandinavia 1723
 natural enemies, Denmark 2408
Epilachna vigintioctopunctata, entomopathogens 2216
Epiphyas postvittana, parasitoids, New Zealand 845
Erwinia carotovora subsp. *carotovora*, *Pseudomonas fluorescens* 113
Erythroxylum coca, *Fusarium oxysporum*, USA 391, 2483
Euphorbia, *Fusarium* 2465
Euphorbia esula, *Sciota divisella* 409
Euphorbia heterophylla, fungi 398
Euphorbia hirta, fungi 398
Euphorbia pulcherrima, *Bemisia argentifolii* 989
 extension 1361
Fasciola hepatica, UK 2452
Fenusa, *Steinernema carpocapsae* 684
 fish diseases 384
 forest pests
 entomopathogens, North America, reviews 1665
 USA, reviews 1664
Frankliniella, *Orius insidiosus* 826
Frankliniella occidentalis
Beauveria bassiana 984
 Morocco 709
 USA 314, 709
 entomogenous fungi 2105
Neoseiulus cucumeris 134, 141
 predatory arthropods 133, 986
 reviews 704
Verticillium lecanii 2104
 free living nematodes, nematophagous fungi 685
 fungal pathogens, *Pseudomonas* 2206
 fungi 1716, 2064
Fusarium
 antagonists 126
Streptomyces griseoviridis, USA 282
Fusarium culmorum, *Trichoderma harzianum*, Slovakia 1421
Fusarium oxysporum 131
 antagonists 2372
Bacillus subtilis 2197
Paecilomyces lilacinus 145
 soil fungi 1700
Trichoderma harzianum 2230
Fusarium oxysporum f.sp. *ciceris*, fungal antagonists 1476
Fusarium oxysporum f.sp. *cubense*, antagonists 1585
Fusarium oxysporum f.sp. *dianthi*
Fusarium oxysporum 2373
Trichoderma 2377-2378
Fusarium oxysporum f.sp. *lagenariae*, *Burkholderia gladioli* 132
Fusarium oxysporum f.sp. *lycopersici*
Bacillus subtilis, Egypt 2207
Penicillium oxalicum 111
Fusarium oxysporum f.sp. *melonis*, *Aspergillus niger* 114
Fusarium oxysporum f.sp. *radicis-lycopersici*
Pseudomonas chlororaphis 128
Trichoderma 110
Fusarium oxysporum f.sp. *sesami*, *Trichoderma*, India 225
Fusarium oxysporum f.sp. *spinaciae*, *Fusarium oxysporum* 95
Fusarium oxysporum f.sp. *vasinfectum*
Actinomyces 252
Bacillus 252
Trichoderma viride 252
Fusarium proliferatum, bacteria, Taiwan 306
Fusarium solani, *Pseudomonas fluorescens* 2166
Fusarium udum, *Bacillus subtilis* 67
Gaeumannomyces graminis var. *tritici*, *Phialophora*, USA 32
Galleria mellonella, *Steinernema carpocapsae*, Canada 2260
Gibberella fujikuroi 31
 antagonists 2120

Biological control cont.

- Gliocladium*, books 698
greenhouse pests, Denmark 2101
Gypsonoma aceriana, parasitoids, Bulgaria 2352
Haemonchus contortus
 Duddingtonia flagrans, Mexico 1049
 Mexico 375
Hedychium gardnerianum, *Ralstonia solanacearum*, USA 2463
Helicoverpa, *Bacillus thuringiensis* 941
Helicoverpa armigera
 Bacillus thuringiensis 1955
 Bacillus thuringiensis subsp. *kurstaki* 1540
 Beauveria bassiana 778
 Nomuraea rileyi 2324
 nuclear polyhedrosis viruses 473, 775, 1543
 Orius, Spain 944
 pathogens
 Australia 733
 India 1484
 Trichogramma, Japan 1356
 Trichogramma chilonis, China 938
 Trichogramma pretiosum 1540
Heliothis, Australia 254
Heliothis virescens
 Bacillus thuringiensis subsp. *kurstaki*, USA 2330
 Microplitis croceipes, USA 2330
Helopeltis perniciosa, *Oecophylla smaragdina* 1212
Hemiberlesia pitysophila
 Coccobius azumai
 China 635, 1227
 Japan 1227
Hemiptera
 Aphelinidae 716
 Beauveria bassiana 142
 Heracleum, insects 404
Heterobasidion annosum
 Europe 696
 models 291
 North America 696
 Phlebia gigantea, Finland 291
 Phlebiopsis gigantea 2365
 Poland 293
 UK 1692
 Sweden 1690
Heterodera glycines
 bacteria 77
 nematophagous fungi 2184
Heterodera schachtii, nematophagous fungi 244
Heteropsylla cubana, natural enemies 1670
Heterotermes tenuis, *Beauveria bassiana*, Brazil 928
Hieroglyphus daganensis, *Metarhizium anisopliae* 2547
Hyblaea pueria, nuclear polyhedrosis viruses, India 955
Hylobius abietis
 microbial pesticides, UK 1688
 Poland 949
Hypera postica
 Bathyplectes, USA 759
 Metarhizium anisopliae 2080
 North America, reviews 1471
Hypericum perforatum
 Chrysolina hyperici, Canada 434
 insects 425
Hypothenemus hampei
 Beauveria, East Africa 1644
 Bethyridae
 Colombia 2318
 Mexico 2317
 Cephalonomia stephanoderis, Colombia 2319
Hypothenemus obscurus, Coleoptera, USA 1618
Hypsipyla robusta, China 281
Icerya, *Rodolia* 882
Inglisia bivalvata, India 276
insect pests 1373
 Anthracoris nemoralis, Belgium 177
 Bacillus thuringiensis 919
 China 1352
 entomophilic nematodes, reviews 690
 Heterorhabditis 2659

Biological control cont.

- insect pests cont.
 Metarhizium anisopliae, Australia 1642
 natural enemies, Russia 1502
 parasitoids, reviews 672
 predatory insects, India 229
 South East Asia 700
 South Pacific 10
 Sri Lanka 2768
 Steinernema carpocapsae 1394
 Ukraine 948
 Wolbachia 650
insects 2075
introduced species 637
Isoptera, *Metarhizium anisopliae*, Australia 1368
 Ixodidae 1046, 1775
 Keiferia lycopersicella
 Trichogramma brassicae 144
 Trichogramma pretiosum 144
 Lantana camara, *Falcoia intermedia* 1064
Lepidoptera
 Bacillus thuringiensis, Chile 2357
 Bacillus thuringiensis subsp. *kurstaki*, Italy 799
 Leptinotarsa decemlineata
 Bacillus thuringiensis subsp. *tenebrionis* 785
 USA 92
 Perillus bioculatus 785
 Steinernema carpocapsae, Canada 87
 Leptopharsa gibbicarina, *Crematogaster*, Colombia 2301
 Leucinodes orbonalis, *Bacillus thuringiensis* subsp. *kurstaki* 1541
 Linaria vulgaris, *Eteobalea serratella*, USA 2402
 Liriomyza bryoniae, *Diglyphus isaea* 829
 Liriomyza sativae 531
 Locusta pardalina, *Metarhizium*, Niger 2779
 Ludwigia adscendens, Coleoptera 1054
 Lycoriella auripila, entomophilic nematodes, UK 2396
 Lycoriella mali, *Stratiolaelaps miles*, Northern Ireland 1712
Lygus
 parasitoids 760
 Peristenus, North America 9
 USA 256
Lymantriidae
 Entomophaga maimaiga
 North America, reviews 1663
 USA 1360
 nuclear polyhedrosis viruses, USA 962-963, 1683
 pathogens, USA 289
 predatory arthropods, Morocco 288
Lymantriidae, *Beauveria bassiana*, China 1662
Lythrum salicaria
 Chrysomelidae, North America 1813
 Coleoptera, North America 2511
 Europe 2484
 insects, North America 2511
 USA 2484
Macrophomina phaseolina, *Trichoderma viride*, India 1474
Macrosiphum euphorbiae
 Aphelinus abdominalis, Switzerland 140
 Coccinellidae, Belgium 187
 Magnaporthe grisea, *Pseudomonas fluorescens*, India 732
 Mamestra brassicae, *Trichogramma*, Japan 1405
 Matricaria perforata, *Omphalopion hookeri*, Canada 1796
 Megalurothrips sjostedti, *Metarhizium anisopliae*, Kenya 774
 Melaleuca quinquenervia
 Botryosphaeria ribis, USA 2494
 Eucercoris suspectus, Australia 2470
 Meligethes aeneus, *Metarhizium anisopliae* 916
 Meloidogyne 2728
 Paecilomyces lilacinus 247
 Pasteuria penetrans 809, 991, 1386, 1388

Biological control cont.

- Meloidogyne* cont.
 Pasteuria penetrans cont.
 reviews 2117
 Streptomyces saracetus, Taiwan 215
Meloidogyne incognita
 bacteria 2194
 Glomus deserticola 154
 Glomus fasciculatum 2115, 2224
 Glomus mosseae 835
 Mononchoides longicaudatus 152
 nematophagous fungi 188, 2223, 2233
 Paecilomyces lilacinus 150, 160, 835, 2116, 2226, 2231, 2286, 2323, 2401
 Pasteuria penetrans 150-151, 154, 158, 789, 2191, 2229
 Trichoderma harzianum 149
 Verticillium chlamydosporium 151, 2225
Meloidogyne javanica
 antagonists 2232
 Mesostigmatidae 2181
 nitrogen fixing bacteria 78
 Paecilomyces lilacinus 145, 248, 834
 Pasteuria penetrans 156
 Pseudomonas aeruginosa 834, 2180
Meloidogyne mayaguensis, *Arthrobotrys oligospora*, Senegal 2228
Melolontha, *Beauveria brongniartii*, Europe 648
Melolontha melolontha, *Beauveria brongniartii*, Austria 2133
Metcalfe pruinosa
 Neodryinus typhlocybae 2351
 Croatia 1404
 France 2082
 Italy 717
Mimosa pigra
 Carmentia mimosa, Australia 1059
 Chalcodermus persimilis 408
 Chalcodermus serripes 2476
 Neurostrota gunniella, Australia 1066
models 1854
 Euphorbia esula 2491
 Hieroglyphus daganensis 2547
 molecular biology 2062
 Monilinia fructicola, *Cryptococcus infirmo-minutus* 329
 Monochamus alternatus, *Beauveria bassiana* 2344
 Monochoria vaginalis, fungi 2460
 Musca domestica, Sweden 369
Muscidae
 Muscidifurax 1023
 parasitoids 1021, 1039
 mycorrhizas, reviews 2067
 Mythimna unipuncta, *Bacillus thuringiensis*, USA 2144
Myzus persicae, *Coccinella septempunctata*, Romania 825
Nassella trichotoma, Australia 62, 422
Nematoda 1031-1035
 Arthrobotrys robusta, Brazil 1768
 Duddingtonia flagrans 1051
 Fiji 1029, 1052
 horses 385
 Indonesia 1028
 livestock 385
 Mexico 1027
 nematophagous fungi 1050, 2449
 Paraguay 1026
 Pleurotus ostreatus 1389
 Verticillium chlamydosporium 1385
 Niphades castanea, *Steinernema carpocapsae* 687
Noctuidae
 Bacillus thuringiensis 943, 2089
 Baculoviridae 2339
 Baculovirus 274
 nuclear polyhedrosis viruses, USA 264, 2331
 Trichogramma exiguum, USA 262
 nuclear polyhedrosis viruses, *Orgyia thyellina*, New Zealand 2112
 Oebalus insularis 1462
 Oedaleus senegalensis, *Metarhizium anisopliae*, Niger 2772
 Oesophagostomum dentatum, *Duddingtonia flagrans* 1048

Biological control cont.

- Ophiostoma novo-ulmi* 958
Verticillium dahliae, Spain 1686-1687
Opuntia stricta
Cactoblastis cactorum, USA 413
Dactylopius opuntiae, South Africa 1072, 2488
Orgyia pseudotsugata, nuclear polyhedrosis viruses 971
Orobancha crenata, *Phytomyza orobanchia*, Egypt 2479
Orobancha cumana
Fusarium oxysporum 913
 Bulgaria 2486
Fusarium oxysporum f.sp. *orthoceras* 402
 Orthoptera
Beauveria bassiana, Mali 1110
Metarhizium anisopliae 441
Oryctes monoceros, *Baculovirus oryctes*, Tanzania 2307
Ostertagia ostertagi
Duddingtonia flagrans 2446
 Denmark 2450
Ostrinia nubilalis, entomophilic nematodes 54
Otiiorhynchus ligustici, *Heterorhabditis bacteriophora*, USA 1468
Otiiorhynchus sulcatus
 entomophilic nematodes 2243
 USA 988
Heterorhabditis, models 485
Heterorhabditis bacteriophora
 Italy 2382
 USA 2261
Heterorhabditis marelatus, USA 2261
Steinernema carpocapsae, Canada 2260
Panonychus citri, *Amblyseius fallacis*, USA 317
Panonychus ulmi
 Phytoseiidae
 France 1572, 1584
 USA 180
Typhlodromus, Netherlands 2240
Typhlodromus pyri, France 172
Papuana uninodis, entomophilic nematodes 85
Parapoxyn stagnalis, fishes, Vietnam 734
Parocneria orientalis
 nuclear polyhedrosis viruses, China 973
 pathogens, China 1695
Parthenium, *Zygogramma bicolorata*, India 412
Parthenium hysterophorus
 India 440
Puccinia abrupta, Australia 1791
Zygogramma bicolorata, India 1801
Pectinophora gossypiella, *Steinernema* 2332
Penicillium roquefortii, *Pichia anomala* 24, 997
Peribatodes rhomboidaria, *Bacillus thuringiensis* subsp. *kurstaki*, Romania 181
 pest resistance, interactions 1815
Pestalotia, Formicidae, Costa Rica 1675
Philephedra tuberculosa, *Verticillium lecanii*, Colombia 2280
Phoma chrysanthemicola, antagonists 2378
Phoma medicaginis var. *pinodella*, *Bacillus subtilis* 767
Phthorimaea operculella
Copidosoma koehleri, Japan 1646
 microbial pesticides 334
Phyllocnistis citrella
Agriaspis citricola
 Argentina 218
 Italy 1611
 USA 211, 887, 2283
Cirrospilus, Italy 1600
Cirrospilus ingenuus, USA 2284
 Hymenoptera, China 202
Phytonemus pallidus, Phytoseiidae 862
Phytophthora bohemieriae, *Bacillus* 250
Phytophthora capsici
Bacillus, India 323
Trichoderma harzianum, India 323

Biological control cont.

- Phytophthora nicotianae*, *Bacillus subtilis* 123
Phytophthora nicotianae var. *parasitica*
Burkholderia gladioli 303
Trichoderma 2264
Phytoseiulus persimilis, *Tetranychus urticae*, models 2388
Planococcus citri, parasitoids 895
Planococcus lilacinus, *Cryptolaemus montrouzieri* 1506
 plant diseases 5, 656, 2073
Bacillus 115, 729
Candida sake 332
 reviews 2758, 2761
 plant parasitic nematodes 14, 689, 2784
 bacteria 2785
 reviews 15
 reviews 1387
Trichoderma 1391
 plant pathogenic fungi 2126
 antagonists, Israel 1511
Bacillus subtilis 2196
 bacteria 166
Chaetomium cochlioides 2125
 mycorrhizal fungi 2311
Pseudomonas chlororaphis 728
 Sweden 30
Rhodotorula glutinis 165
Trichoderma harzianum, reviews 1401
Ulocladium atrum 305, 2125
 plant pathogens 20, 2759
 antagonists 2065
Bacillus 302
 endophytes 2070
Paecilomyces lilacinus 834
Pseudomonas 125
Pseudomonas aeruginosa 834
Pseudomonas fluorescens 29
Pythium oligandrum 239
 reviews 1347
 soil 1346
Pseudomonas 652
 vegetables, reviews 707
 plant pests
 Araneae 1413
 entomogenous fungi, reviews 2102
 entomopathogens, reviews 715
 predatory insects, books 2099
Plasmodiophora brassicae
 bacteria, India 99
Heteroconium chaetospora 793
Phoma glomerata 791
Platyphora semiviridis, *Solanum mauritanum* 1076
Plutella xylostella
Bacillus thuringiensis 790
 China 2118
 Mauritius 104
Beauveria bassiana
 Japan 1503
 USA 103
Cotesia plutellae, USA 800
 microbial pesticides 795
 natural enemies 2400
Poa annua
 mycorrhizas 2390
Pseudomonas 756
Xanthomonas campestris, Japan 318
Xanthomonas campestris pv. *poannua* 1061
Xanthomonas translucens pv. *poae* 57
Polymyxa betae 924
Polystigma rubrum 1550
 pome fruits, insect pests, Araneae, Hungary, books 2098
Popillia japonica, *Pteridium aquilinum*, USA 1802
 postharvest decay
Bacillus, Korea Republic 322
Candida oleophila 192
Debaryomyces hansenii 879
Pseudomonas 196
 Sweden 1717
 yeasts 1558
Prays oleae, *Chrysoperla carnea*, Portugal 2304
 prediction, models 2087
Prostephanus truncatus, *Teretriosoma nigrescens*, Togo 339, 1721

Biological control cont.

- Protomycopsis phaseoli*, *Trichoderma* 2164
Pseudaulacaspis pentagona, natural enemies 176
Pseudococcidae, *Heterorhabditis bacteriophora*, Cuba 1647
Pseudomonas solanacearum, *Bacillus* 2310
Pseudothraupis wayi, *Oecophylla longinoda*, Tanzania 921
Psylla, *Anthocoris*, Netherlands 2240
Pyrgomorpha cognata, *Metarhizium*, Niger 2779
Pyrrhalta luteola
Bacillus thuringiensis subsp. *tenebrionis*, Canada 284
Oomyzus gallerae, USA 287
Steinernema carpocapsae, Canada 284
Pythium, reviews 2760
Pythium aphanidermatum, bacteria 1473
Pythium carolinianum, *Pseudomonas fluorescens*, Egypt 935
Pythium ultimum, *Pythium oligandrum* 238
Pythium vexans, *Trichoderma* 1711
 rabbits, rabbit haemorrhagic disease virus, Australia 343
Radopholus similis, *Pseudomonas fluorescens* 904
Ralstonia solanacearum 117
 bacteria 1861
Ranunculus acris, *Sclerotinia sclerotiorum* 396
 reports 692
 reviews 2084
Rhammatocerus schistocercoides, *Metarhizium anisopliae*, Colombia 1408
Rhizoctonia solani
 antagonists 68
Bacillus subtilis, India 27
 bacteria 80
Burkholderia cepacia, USA 251
 fungi 69
Gliocladium virens 307
Pseudomonas 307
Pseudomonas fluorescens 22, 1425
Pseudomonas putida, India 1427
Trichoderma, India 81
Trichoderma harzianum 66
Trichoderma koningii 1481
Trichoderma viride, India 27
Verticillium biguttatum, Netherlands 784
Rhynchophorus ferrugineus 1088
Rhytidodera bowringii, *Beauveria bassiana*, China 205
 rice 1422
 plant pathogens, *Xanthomonas oryzae* pv. *oryzae*, China 28
Rigidoporus lignosus 319
 risk assessment 647
 risks, reviews 1326
 rodents 2093
Clostridium botulinum, China 342
Rosa multiflora, rose rosette disease 1060
Rotylenchulus reniformis, *Paecilomyces lilacinus* 155
Rubus
Gibberella avenacea, Canada 399
Phragmidium violaceum, Australia 2480
Rumex crispus, *Glomerella cingulata*, Korea Republic 403
Sagittaria, *Plectosporium tabacinum*, Korea Republic 393
 salmonellosis 383
Salsola kali, arthropods 1807
Salvinia molesta, insects 2510
 Scarabaeidae
 parasitoids, Australia 1676
 pathogens, Poland 1403
Schinus terebinthifolius
Heteroperreya hubrichi
 Brazil 1069
 USA 1069

Biological control cont.

- Schizaphis graminum*, *Lysiphlebus testaceipes* 746
- Sciaridae, *Steinernema feltiae*, Northern Ireland 324
- Sclerospora graminicola*, *Pseudomonas fluorescens*, India 26
- Sclerotinia sclerotiorum* antagonists 2165
- Gliocladium virens* 286
- Trichoderma harzianum* 96, 286
- Sclerotium cepivorum*, antagonists 2195
- Scolytidae, Hymenoptera, Spain 1686
- seedborne organisms, antagonists 295
- seeds 1718
- Semanotus bifasciatus sinoaster*, *Scleroderma guani*, China 977
- Senecio jacobaea* 2489
- Senecio vulgaris*, *Puccinia lagenophorae*, Switzerland 390
- Sesbania punicea*, Curculionidae, South Africa 407
- Sida acuta*, *Calligrapha pantherina*, Australia 435
- Simuliidae, *Bacillus thuringiensis* subsp. *israelensis*, West Africa 1749
- Simulium chutteri*, *Bacillus thuringiensis* subsp. *israelensis*, South Africa 1762
- Siphoninus phillyreae*, Aphelinidae, Egypt 214
- Sirex noctilio*, conferences 2094
- Sitona lineatus*, entomopathogens, Poland 2169
- Slovenia 2086
- soil, plant pathogens 2762
- soil fungi, *Trichoderma* 1391
- Solanum dulcamara*, *Chondrostereum purpureum*, Netherlands 2466
- Solanum elaeagnifolium*, *Leptinotarsa* 2482
- Solenopsis richteri*, *Solenopsis daguerrei*, Argentina 1776
- Sphaerotheca fuliginea*
- Cladosporium cladosporioides* 810
- Sporothrix flocculosa* 118
- Sphecoptapha vespasum*, *Vespula vulgaris*, New Zealand 1045
- Spodoptera frugiperda*
- Bacillus thuringiensis* subsp. *aizawai* 477
- entomophilic nematodes 2777
- nuclear polyhedrosis viruses, Latin America 1433
- Steinernema carpocapsae* 2145
- Steinernema riobrave* 2145
- Trichogramma* 1409
- Spodoptera littoralis*
- Bacillus thuringiensis* subsp. *kurstaki* 2176
- Egypt 2153
- Spodoptera litura*
- Bacillus thuringiensis* subsp. *aizawai*, Japan 848
- nuclear polyhedrosis viruses 106, 802, 2248
- Sporobolus*, *Bipolaris* 2492
- Stenopelmus rufinus*, *Azolla filiculoides* 1080
- stored products pests
- Bacillus thuringiensis* 333, 1722
- Beauveria* 2404
- Cheyletus eruditus* 337
- conferences 2097
- natural enemies, UK 2407
- South East Asia 2412
- Trichogramma evanescens*, Germany 2409
- tropics 2405
- Striga hermonthica*
- Fusarium oxysporum*, Nigeria 2512
- Smicronyx*, Burkina Faso 1084
- Strongyloides papillosus*
- Arihrobotrys oligospora* 376
- nematode-trapping fungi 379
- sugarcane, books 926
- Sweden 2076
- conferences 2095
- reviews 686
- Tamarix chinensis*, insects, USA 1055

Biological control cont.

- Taraxacum officinale*, Phoma, Canada 1787
- Temnorhinus mendicus*, entomophilic nematodes 2309
- Tessaratomia papillosa*
- Anastatus japonicus*
- China 885
- Hong Kong 1613
- parasitoids 217
- Tetranychus* 2383
- Phytoseiulus persimilis*, Germany 1705
- Tetranychus dellaris*, *Chrysoperla carnea*, India 2514
- Tetranychus kanzawai*, *Phytoseiulus persimilis* 1573
- Tetranychus urticae*
- Acar, Belgium 177
- Neoseiulus fallacis*, USA 2322
- Phytoseiulus persimilis* 2388
- Switzerland 140
- predators, Spain 2257
- predatory arthropods 169, 186, 257
- Seiulus finlandicus*, Hungary 831
- Zetzellia mali*, Hungary 831
- Tettigoniidae, *Stichotrema dallatorreanum*, Papua New Guinea 230
- Thaumetopoea pityocampa*, *Linepithema humile* 2369
- Thripidae, reviews 708
- Thrips palmi*, *Wollastoniella rotunda* 889
- Thrips tabaci*
- beneficial insects 2201
- microbial pesticides 702
- Thysanoptera
- Neoseiulus cucumeris*, Switzerland 140
- Orius* 2214
- Tipula paludosa*, North America 1704
- tobacco pests, India, books 934
- Tortricidae
- Bacillus thuringiensis* 182
- New Zealand 1582
- Bethylidae, New Zealand 1417
- parasitoids, New Zealand 1416
- Ukraine 1370
- Toxoptera citricidus*, entomogenous fungi, USA 2269
- Trapa*, insects, Asia 2506
- Trialeurodes vaporariorum*
- Acletoxenus formosus*, Italy 315
- Encarsia formosa* 1536
- Belgium 177
- Germany 1705
- Switzerland 140
- Macrolophus caliginosus*, Poland 1532
- Metarhizium anisopliae* 2103
- Triatoma infestans*, *Beauveria bassiana* 1778
- Trichoderma*, books 698
- Trichogramma chilonis*, *Helicoverpa armigera*, India 781
- Trichostrongylidae, Brazil 1030
- Trichostrongylus colubriformis*, *Dudingtonia flagrans*, Australia 377-378
- Trichosurus*, conferences 2092
- Tripleurospermum perforatum*, *Rhopalomyia*, Europe 1799
- Typhula
- Typhula phacorrhiza* 304
- Canada 1463
- Ulex europaeus*
- Australia 428
- Cydia succedana*, New Zealand 1806
- Unaspis euonymi*
- Chilocorus kuwanae* 978
- natural enemies, USA 312
- Unaspis yanonensis*, *Aphytis yanonensis*, France 884
- Uncinula necator*, *Orthotydeus lambi*, USA 1563
- vegetable pests, beneficial insects, Egypt 2199
- Verticillium dahliae*
- Pythium oligandrum* 124
- Talaromyces flavus* 130
- Viola arvensis*, *Mycocentrospora acerina* 2490

Biological control cont.

- Vulpia*, France 426
- weeds 2455, 2458, 2489, 2501
- Australia 389
- books 386
- Brachycaudus rumexicolens* 1075
- Canada 1786
- China 1352
- Curculionidae 1078
- ducks 1083
- Japan 2151
- fungi 431, 2459
- Australia 275
- Turkey 2456
- USA 2473
- insects
- North America 430
- USA 2473
- models 432
- pathogens 2487
- plant pathogenic fungi 1056
- Pyrenophora chaetomioides* 1079
- reviews 387
- South Africa 2457
- Triops longicaudatus*, Japan 2507
- USA 424
- wood destroying fungi, reviews 2403
- woody weeds, *Chondrostereum purpureum* 2462
- Xanthium spinosum*, *Colletotrichum orbiculare* 2481
- Xanthomonas hortorum* pv. *pelargonii*, viruses 981
- Xanthomonas oryzae* pv. *oryzae*, China 25
- Xanthomonas vesicatoria*, bacteria, North America 1512
- Zeuzera pyrina*, entomophilic nematodes, Egypt 1393
- Biological control agents**
- biotechnology, reviews 1340
- climate, models 2054
- formulations 1849
- Germany 2770
- legislation, Sweden 2060
- mass rearing 1169
- books 1397
- population dynamics, models 471
- production 2559
- Pythium ultimum*, screening 2326
- quality controls 492
- reviews 1329
- selection 1170
- soil bacteria, reviews 2068
- Biology** Papers on specific aspects of biology, such as reproduction, life history, ultrastructure, respiration etc. are indexed separately under these headings.
- Cheyletus eruditus* 1724
- Lariophagus distinguendus* 1725
- Biomphalaria pfeifferi**, biological control, *Pila ovata* 373
- Biosteres arisanus**
- hosts, *Bactrocera dorsalis* 1158
- mass rearing 1883
- rearing techniques 1158
- Biosteres juglandis**
- host-seeking behaviour 221
- hosts, *Rhagoletis juglandis* 221
- Juglans major* forests, USA 221
- Biosteres longicaudatus**
- Bactrocera correcta*, biological control 2035
- chromosomes 2035
- diversity, orchards, Mexico 1615
- forests, Mexico 953
- hosts
- Anastrepha* 953
- Anastrepha suspensa* 175, 2275
- Tephritidae 891
- Bipolaris**, *Sporobolus*, biological control 2492
- Bipolaris euphorbiae**, *Euphorbia heterophylla*, biological control 398
- Birds**, *Tipula paludosa*, biological control, North America 1704
- Black currants**, *Archips rosanus*, Poland 2250
- Blastothrix hungarica**, hosts, *Parthenolecanium persicae* 2244

Blattella germanica

buildings, Denmark 2440
pathogens

Beauveria bassiana 2440
Beauveria brongniartii 2440
Mermithidae 2440
Metarhizium anisopliae 1044, 2440, 2442
Paecilomyces anisopliae 2440
Paecilomyces farinosus 2440
Paecilomyces fumosoroseus 2440
Serratia marcescens 2440
Steinernema scapterisci 1371
Verticillium lecanii 2440

Blattisocius tarsalis

apple stores, Poland 1715

Ephestia kuehniella

biological control
Denmark 2408
Scandinavia 1723
prey, *Ephestia kuehniella* 1935
temperature 1935

Blepharipa pratensis

hosts, *Lymantria dispar* 2359
Quercus rubra forests, Canada 2359

Blepharipa zebina

hosts, *Antheraea proylei* 348, 1731
parasitoids
Brachymeria alternipes 348
Brachymeria lugibris 348
Perilampus nesiotis 1731
Trichomalopsis apantelectena 1999, 2676

Blepyrus propinquus

Pheidole megacephala, interactions 1616
pineapple plantations, USA 1616

Blondelia

hosts, *Mamestra configurata* 1887
keys 1887

Blood composition, Rhynocoris marginatus,

India 2043

Bombyx mandarina

pathogens
Nosema 1916
Nosema bombycis 1916

Bombyx mori

parasitoids, *Exorista bombycis* 1002
pathogens
Bacillus thuringiensis 2582
Bacillus thuringiensis subsp. *kurstaki* 622, 659, 1931
Bacillus thuringiensis subsp. *sotto* 1931
Nosema 1916
Nosema bombycis 1916
nuclear polyhedrosis viruses 612

Bonagota cranaodes

grapes, Uruguay 869
parasitoids
Trichogramma exiguum 869
Trichogramma pretiosum 869

Books

Acari, biological control 2799
Agrobiodiversity: characterization, utilization and management 2731, 2798
Annotated bibliography of biological control of sugarcane pests in India (1919-1998) 926
Annotated bibliography of biological control of tobacco pests in India 934
biological control 1399
biological control agents, mass rearing 1397
Biological control of insect pests: South-east Asian prospects 700
Biological control of vertebrate pests: the history of myxomatosis, an experiment in evolution 2793
Biological control of weeds - a world catalogue of agents and their target weeds 386
Biopesticides: use and delivery 1146, 1395
Biotechnological approaches in biocontrol of plant pathogens 2796
Conservation biological control 1399
Dictionary of biological control and integrated pest management 699

Books cont.

Enhancing biological control: habitat management to promote natural enemies of agricultural pests 1396
Formulation of microbial biopesticides 1398
From ethnomycology to fungal biotechnology 2794
Heterobasidion annosum. Biology, ecology, impact and control 696
Natural enemies handbook: the illustrated guide to biological pest control 2797
Plant-microbe interactions, Volume 4 2795
Spiders (Araneae) as polyphagous natural enemies in orchards 2098
Technology in biological control 1397
The Biopesticide Manual 2099
Trichoderma and *Gliocladium*. Volume 1: Basic biology, taxonomy and genetics 697
Trichoderma and *Gliocladium*. Volume 2: Enzymes, biological control and commercial applications 698
Tropical veterinary medicine: molecular epidemiology, hemoparasites and their vectors, and general topics 1771-1772

Boophilus annulatus

pathogens
Heterorhabditidae 1772
Steinernematidae 1772

Boophilus microplus

biological control
Metarhizium anisopliae 1036
Mexico 1780
Verticillium lecanii, Cuba 1777
pastures, Mexico 1780
pathogens
Beauveria bassiana 1043
Metarhizium anisopliae 1779, 2444
Verticillium lecanii 1043

Botanophila fugax, pathogens, Strongwell-sea castrans 2433

Botryodiplodia

bananas 196
biological control, *Pseudomonas* 196

Botryodiplodia theobromae

antagonists
Gliocladium 1900
Laetisaria 1900
Pestalotiopsis neglecta 193
Trichoderma 1900
hosts, *Heterodera cajani* 2182

Botryosphaeria ribis, *Melaleuca quinquenervia*, biological control, USA 2494

Botryosphaeria stevensii, antagonists, *Pseudomonas* 2066

Botrytis

antagonists, *Trichoderma harzianum* 814
biological control
Bacillus 302
Ulocladium atrum 706
greenhouse crops 302
tomatoes 814

Botrytis allii, integrated control 2185

Botrytis cinerea

antagonists
Acremonium charticola 1551
Alternaria alternata 1551
Aureobasidium pullulans 1523-1524
Bacillus 1552, 2161
Bacillus brevis 1527
Bacillus pumilus 168
bacteria 1523, 1554, 2238
Candida saitoana 163
Chaetomium cochliodes 836
Cladosporium cladosporioides 1551
Cryptococcus albidus 1523-1524
Cryptococcus laurentii 327
Debaryomyces hansenii 2268
Erwinia 996
fungi 1523
Gliocladium catenulatum 1551
Gliocladium fimbriatum 1551
Gliocladium penicillioides 1551
Gliocladium roseum 1553, 2237
Penicillium funiculosum 1551
Pichia anomala 995

Botrytis cinerea cont.

antagonists cont.
Pseudomonas 2066
Pseudomonas chlororaphis 1559
Pseudomonas fluorescens 168, 1552
Saccharomyces cerevisiae 327
Serratia liquefaciens 841
Sporobolomyces roseus 327
Trichoderma 658
Trichoderma harzianum 65, 1479, 1523-1524
Trichoderma koningii 1551
Trichoderma viride 1551, 2168
Ulocladium atrum 836, 1418
yeasts 1523, 2268
apples 163, 327, 332, 2238
biological control
antagonists 308, 2790
Israel 1511
Bacillus 1556
Korea Republic 322
bacteria 116
Candida sake 332
Chaetomium cochlioides 2125
fungi, Denmark 119
Rhodotorula glutinis 165
Trichoderma, Norway 167
Trichoderma harzianum 2
Croatia 1560
Trichoderma viride 765, 2167
Ulocladium atrum 1151, 2125
yeasts 116
chickpeas 765
crops 2
cucumbers, Israel 1511
culture techniques 1151
grain legumes 2161
grapes 841, 1551-1552, 2125
Germany 836
Panax pseudoginseng 322
Phaseolus vulgaris 65
plant pathogenic fungi, biological control 166
roses 308
strawberries, Norway 167
tomatoes 116
Denmark 119

Botrytis ricini
Euphorbia heterophylla, biological control 398
Euphorbia hirta, biological control 398
Bovicola ovis, pathogens, *Bacillus thuringiensis* 1037
Brachinus eximius, seasonal cycle, apple orchards, Hungary 1571
Brachycaudus rumexicolens
Emex australis, biological control, Australia 1073
weeds, biological control 1075
Brachycaudus tragopogonis, parasitoids, *Diaeretiella rapae* 1975
Brachycorynella asparagi, parasitoids, *Diaeretiella rapae* 1975
Brachygastra lecheguana
insecticides, toxicity 2526
prey, *Tuta absoluta* 2526
Brachymeria alternipes
hosts
Blepharipa zebina 348
Exorista bombycis 348
Brachymeria excarinata
fields, China 100
hosts, *Plutella xylostella* 100
Brachymeria intermedia
feeding behaviour 584
hosts, *Lymantria dispar* 584
Brachymeria lasus
Entomopoxvirus, interactions 1933
hosts
Deudorix isocrates 2281
Mythimna separata 1933
Brachymeria lugibris
hosts
Blepharipa zebina 348
Exorista bombycis 348
Brachymeria pomonae
hosts
Apanteles oenone 599
Cardiophiles nigricipes 599
Pectinophora gossypiella 599

- Bracon brevicornis**
flour mills, Portugal 1726
hosts
 Ephestia kuehniella 1726
 Ostrinia nubilalis 1363
 kairomones, effects 1363
- Bracon cephi**, hosts, *Cephus cinctus* 726
- Bracon hebetor**
 Copidosomopsis tanytmemus, interspecific competition 1246
 development 565
 hosts, *Ephestia kuehniella* 1246
 insecticides, nontarget effects 1835
 maize grain, USA 340
 nontarget effects, entomogenous fungi 2771
- Bracon lissogaster**, hosts, *Cephus cinctus* 726
- Bracon variator**, *Gyponoma aceriana*, biological control, Bulgaria 2352
- Braconidae**
 Cacyreus marshalli, biological control, Poland 1703
 hosts
 Chromatomyia horticola 2173
 Miridae 2370
 insecticides, toxicity 1118
 ovipositor 1239-1240
 pea fields, India 2173
 phylogeny 1885, 2032
 Pinus contorta forests, USA 2370
- Bradyrhizobium**
 antagonism
 Fusarium solani 4, 2299
 Macrophomina phaseolina 4, 2299
 Rhizoctonia solani 4, 2299
 Meloidogyne javanica, biological control 78
- Braggia**, parasitoids, *Diaeretiella rapae* 1975
- Brasema**, hosts, *Dasineura gleditichiae* 313
- Brassica campestris**
 Harpalus rufipes 89
 Plasmodiophora brassicae 793
- Brassica kaber**, *Harpalus rufipes* 89
- Brassica pekinensis**, *Myzus persicae* 1984
- Brassicaceae**
 Brevicoryne brassicae, Poland 1627
 insect pests, Russia 1502
 Lepidoptera, Italy 799
 Pieris, Japan 2610
 Pieris rapae 101
 Plasmodiophora brassicae 791
 Plutella xylostella, USA 103
- Brassicaceae habitats**, parasitoids, Japan 2610
- Brassolis sophorae**
 parasitoids
 Spilochalcis morleyi 1221
 Xanthozona melanopyga 1221
- Brazil**
 Bacillus sphaericus, soil 1739
 Cornitermes cumulans, biological control, entomogenous fungi 2517
 Cryphonectria cubensis, biological control 956
 Nematoda, biological control, *Arthrobrachys robusta* 1768
 parasitoids, *Citrus* orchards 1614
 potatoes, integrated pest management 2186
 Schinus terebinthifolius, biological control, *Heteroperreya hubrichi* 1069
 Sirex noctilio, biological control 2094
 Trichostongylidae, biological control 1030
- Brazil (Brasilia)**, parasitoids, soyabean fields 772
- Brazil (Parana)**
 Alcaeorrhynchus grandis, sunflower fields 920
 Tachinidae, fields 1486
- Brazil (Rio Grande do Sul)**, Phytoseiidae, apple orchards 853
- Brazil (Sao Paulo)**
 Galeopsomyia fausta, *Citrus* orchards 897
 Heterotermes tenuis, biological control, *Beauveria bassiana* 928
 Pseudacteon 605
- Breadfruits**, *Icerya*, Pacific Islands 882
- Breeding places**, *Aedes vexans*, Germany 1745
- Brevicoryne brassicae**
 biological control
 beneficial insects, Egypt 2199
 natural enemies, Russia 1502
- Brassicaceae**
 Poland 1627
 Russia 1502
- parasitoids, *Diaeretiella rapae* 236, 595, 1627, 1975
- pathogens, *Erynia aphidis* 227
- predators
 Carabus violaceus 1414
 Coccinella septempunctata 234
 Coccinella undecimpunctata 544
 Coccinellidae 804
 Eupeodes 234
 Eupeodes confrater 804
 Harpalus rufipes 1414
 Nebria brevicollis 1414
 Pterostichus cupreus 1414
 Pterostichus madidus 1414
 Pterostichus melanarius 1414
 Syrphidae 804
 Trochosa ruficola 1414
- rape, India 227, 234, 236
- Brevipalpus pulcher**, prey, *Cenopalpus pulcher* 1578
- Broccoli**, insect pests, Mexico 803
- Broccoli fields**
 beneficial insects, Mexico 803
 parasitoids, Canada 105
- Bromopropylate**
 nontarget effects, *Amblyseius andersoni* 870
 toxicity, *Adalia bipunctata* 1829
- Bromus commutatus**, biological control, *Pyrenophora chaetomioides* 1079
- Bromus diandrus**, biological control, *Pyrenophora chaetomioides* 1079
- Bromus hordeaceus**, biological control, *Pyrenophora chaetomioides* 1079
- Bromus secalinus**, biological control, *Pyrenophora chaetomioides* 1079
- Bromus sterilis**, biological control, *Pyrenophora chaetomioides* 1079
- Bruchidius villosus**, *Cytisus scoparius*, biological control 2485
- Bruchus pisorum**
 biological control, *Uscana senex* 1719
 parasitoids, *Uscana chiliensis* 1893
 pea seeds 1719
- Brumoides suturalis**
 lemon orchards, India 198
 life history 1944
 prey
 Aphididae 1374
 Aphis craccivora 1944
 Chilades lajus 198
 Ferrisia virgata 1944
 Maconellicoccus hirsutus 1944
 Papilio demoleus 198
 Planococcus minor 1944
- Brussels sprouts fields**, parasitoids, Canada 105
- Bryodema luctuosum**, biological control, *Nosema locustae*, China 758
- Bubulcus ibis**
 prey
 Agriotes 1491
 Agrotis 1491
 Holotrichia 1491
- Bucculatrix ainsliella**
 parasitoids
 Chalcidoidea 970
 Ichneumonidae 970
 Quercus rubra, Canada 970
- Buchloe dactyloides fields**
 Encyrtidae, USA 1465
 Rhopus nigroclavatus, USA 1467
- Buchloe dactyloides habitats**, beneficial arthropods, USA 982
- Bulgaria**
 Gyponoma aceriana, biological control, parasitoids 2352
 Hymenoptera, *Pinus nigra* forests 1698
 Ichneumonidae, new geographic records 2749
 Orobancha cumana, biological control, *Fusarium oxysporum* 2486
- Bulgaria cont.**
 predatory insects, crop fields 713
 Syrphidae, potato fields 91
- Buprofezin**
 toxicity
 Chrysoperla externa 1831
 Eretmocerus orientalis 1830
 parasitoids 1093
- Burkholderia cepacia**
 Alternaria radicina, biological control 1490
 antagonism
 Fusarium oxysporum 1691
 Gibberella fujikuroi 1691
 Paxillus involutus 1691
 Rhizoctonia solani 19, 1691
 Rosellinia bunodes 932
 cotton, USA 251
 herbicides, nontarget effects 251
 reviews 657
 Rhizoctonia solani, biological control, USA 251
- Burkholderia gladioli**
 Fusarium oxysporum f.sp. *lagenariae*, biological control 132
 Phytophthora nicotianae var. *parasitica*, biological control 303
- Burkina Faso**
 Culicidae, biological control, entomopathogenic bacteria 1733
 Striga hermonthica, biological control, *Smicronyx* 1084
- Bursaphelenchus xylophilus**
 biological control, Japan 294
 nematophagous fungi, *Esteya vermicola* 2568
 Pinus, Japan 294
- Busseola fusca**
 maize, Cote d'Ivoire 1439
 parasitoids
 Cotesia sesamiae 1189
 Telenomus busseolae 1439
 Telenomus isis 1439
 Tetrastichus articulatus 1439
- Buxus sempervirens**, predatory mites, Belgium 987
- Cabbage fields**
 Cotesia, new species, South Africa 1897
 Diadegma insulare, USA 800
 Encarsia formosa, Egypt 1411
 Hymenoptera
 Japan 801
 USA 1498
 Metarhizium anisopliae, dispersal, Denmark 2154
 parasitoids, Canada 105
 predators, India 804
 predatory arthropods, USA 2204
- Cabbages**
 Bemisia tabaci, Egypt 1411
 Delia, Finland 805
 Delia radicum, UK 797
 integrated pest management 1505
 Pieris brassicae 1501
 plant pathogenic fungi 2196
 Plutella xylostella
 India 1505
 Japan 801, 1503
 USA 800, 1498, 1504
 Rhizoctonia solani, USA 97
- Cacopsylla pyri**
 biological control
 Anthocoris nemoralis
 Belgium 177
 France 844
 natural enemies, France 844
- pears
 Belgium 177
 France 844
 Netherlands 2262
- predators
 Anthocoridae 854
 Anthocoris nemoralis 1581, 2262, 2525
 Anthocoris nemorum 2262
 Arachnida 854
 Chrysopidae 854
 Miridae 854
 Orius 2262

- Acopsylla pyricola**
biological control, *Formica neoclara*, USA 2251
pears
Netherlands 2262
USA 2251
predators
Anthocoris nemoralis 2262
Anthocoris nemorum 2262
Orius 2262
- Acopsylla pyrisuga**
pears, Netherlands 2262
predators
Anthocoris nemoralis 2262
Anthocoris nemorum 2262
Orius 2262
- Cactoblastis cactorum**, *Opuntia stricta*, biological control, USA 413
- Cacyreus marshali**
biological control, parasitoids, Poland 1703
ornamental plants, Poland 1703
- Cadra cautella**
biological control, *Bacillus thuringiensis* 1722
maize grain 1722
- Cales noacki**
Aleurothrixus floccosus, biological control, Greece 1612
Beauveria bassiana, nontarget effects 1134
- Callaspidia**, fields, Argentina 1458
- Calligrapha pantherina**
Sida acuta, biological control, Australia 435
weeds, biological control 1078
- Callophrys sheridani**, *Bacillus thuringiensis*, nontarget effects 449
- Callosobruchus chinensis**
cowpea grain 999
cowpea seeds 1942
cowpeas, tropics 2405
integrated control, tropics 2405
parasitoids
Anisopteromalus calandrae 1942, 2736
Heterospilus prosopidis 1942, 2736
Hymenoptera 999
- Callosobruchus maculatus**
biological control, parasitoids, West Africa 2411
cowpea seeds
Niger 1720
West Africa 2411
cowpeas, Egypt 776
green gram seeds, India 1000
parasitoids
Catolaccus grandis 1871
Dinarmus acutus 1000
Dinarmus basalis 1000, 2552, 2581
Eupelmus orientalis 2581
Eupelmus vuillei 2581
Heterospilus prosopidis 341, 1316
Uscana lariophaga 776, 1720
- Calotropis procera**
pathogens
Phaeoramularia calotropidis 2467
Puccinia obliqua 2467
- Calystegia sepium**, biological control, *Stagonospora* 1793
- Cameraria ohridella**, parasitoids, Gracillariidae 2597
- Campoletis**
habitats, maize fields, USA 1452
hosts, *Mythimna unipuncta* 1452
- Campoletis chlorideae**
chickpea fields, India 773
cotton fields, China 1661
hosts, *Helicoverpa armigera* 773, 2172
pigeon pea fields, India 2172
population dynamics 1661
- Camponotus compressus**
biological control, pathogens 2451
pathogens
Bacillus thuringiensis 2573
Beauveria bassiana 2573
Beauveria brongniartii 2573
Metarhizium anisopliae 2573
Verticillium lecanii 2573
- Camponotus foreli**, prey, *Chrysoperla carnea* 232
- Camponotus micans**, prey, *Chrysoperla carnea* 232
- Campylobacter**, antagonism, *Magnaporthe grisea* 1299
- Canada**
Leptinotarsa decemlineata
biological control, *Steinernema carpocapsae* 87
potatoes 785
Reticulitermes flavipes 2058
Rubus, biological control, *Gibberella avenacea* 399
Taraxacum officinale, biological control, *Phoma* 1787
weeds
biological control 1786
insects 430
- Canada (Alberta)**
Convolvulus arvensis, biological control, *Aceria malherbae* 2478
Cynoglossum officinale, biological control, *Erysiphe cynoglossi* 2464
Matricaria perforata, biological control, *Omphalapon hookeri* 1796
- Canada (British Columbia)**
apples, replant disease, biological control, *Bacillus subtilis* 1549
Cydia pomonella, biological control, *Trichogramma planeri* 872
Cynoglossum officinale, biological control, *Erysiphe cynoglossi* 2464
Cyzenis albicans, habitats 1570
Galleria mellonella, biological control, *Steinernema carpocapsae* 2260
Hymenoptera, street trees 970
Otiiorhynchus sulcatus, biological control, *Steinernema carpocapsae* 2260
- Canada (Manitoba)**
Bacillus thuringiensis
grain stores 336
soil 336
- Canada (New Brunswick)**
Choristoneura fumiferana, *Abies balsamea* 297
Pyrrhalta luteola
biological control
Bacillus thuringiensis subsp. *tenebrionis* 284
Steinernema carpocapsae 284
- Canada (Newfoundland)**, Hymenoptera, *Picea glauca* forests 2371
- Canada (Nova Scotia)**, *Hypericum perforatum*, biological control, *Chrysolina hyperici* 434
- Canada (Ontario)**
Choristoneura fumiferana, biological control, *Trichogramma minutum* 950
parasitoids, *Quercus rubra* forests 2359
Typhula, biological control, *Typhula phacorrhiza* 1463
Xanthomonas vesicatoria, biological control, bacteria 1512
- Canada (Quebec)**
Convolvulus arvensis, biological control, *Phomopsis convolvulus* 2500
Cotesia rubecula, new geographic records 644
parasitoids, *Brassica* fields 105
Perillus bioculatus, potato fields 785
- Canary Islands**, *Phoracantha semipunctata*, natural enemies 1684
- Candida famata**, antagonism, *Penicillium italicum* 216
- Candida oleophila**
antagonism
Penicillium digitatum 2265
Penicillium expansum 843
postharvest decay 1589
formulations 1589
genetic transformation, orange orchards 1588
population dynamics, orange orchards, USA 1587
postharvest decay, biological control 192
- Candida saitoana**
antagonism
Botrytis cinerea 163
Penicillium expansum 163
- Candida sake**
antagonism
Cladosporium 326
Penicillium 326
Penicillium expansum 2241
Penicillium italicum 216
physiology 618
plant diseases, biological control 332
production 1147
- Cannibalism**
Cheilomenes sexmaculata 1292
Coccinella transversalis 1292
Phytoseiidae 2691
- Cantharidae**
crop fields, Hungary 17
prey
Rhopalosiphum padi 1450
Sitobion avenae 1450
- Canthon virens**, prey, *Atta laevigata* 568
- Capnodis tenebrionis**, pathogens, *Steinernema carpocapsae* 1230
- Capsicum**
Colletotrichum capsici, India 808
Frankliniella, USA 826
plant pathogenic fungi 3
Verticillium dahliae 124
- Capsicum annuum**
Chrysodeixis chalcites, Netherlands 820
Fusarium oxysporum 2230
Meloidogyne javanica 2232
Tetranychus urticae 821
- Capsicum annuum fields**, *Coccinella septempunctata*, Romania 825
- Captan**, toxicity, *Chrysoperla externa* 1831
- Carabidae**
Buchloe dactyloides habitats, USA 982
herbicides, nontarget effects 467
maize fields
Germany 754
Spain 2132
USA 1449
pathogens, *Metarhizium anisopliae* 2154
prey
Aphididae 754
Cicadellidae 754
Delia radicum 797
Thysanoptera 754
roadsides, USA 1449
Tipula paludosa, biological control, North America 1704
wheat fields, Poland 467
- Carabus violaceus**
prey
Brevicoryne brassicae 1414
Metopolophium dirhodum 1414
Rhopalosiphum padi 1414
Sitobion avenae 1414
- Carbamates**, toxicity, *Cotesia glomerata* 1130
- Carbaryl**
toxicity
Chelonus blackburni 1107
Suppatus cincticeps 462
- Carbendazim**
compatibility, *Bacillus thuringiensis* 1842
nontarget effects
Beauveria brongniartii 1115
predatory insects 2534
tolerance, *Trichoderma* 443
- Carbofuran**
nontarget effects, predatory arthropods 1447
toxicity, *Microvelia douglasi atrolineata* 1128
- Carbosulfan**, synergism, *Beauveria bassiana* 2360
- Carcelia**
hosts
Helicoverpa armigera 2172
Lymantria dispar 2359
pigeon pea fields, India 2172
Quercus rubra forests, Canada 2359
- Cardamoms**
Pentalonia nigronervosa 2394
India 2397
Pythium vexans 1711
- Cardaria draba**, natural enemies, *Aceria drabae* 1077
- Cardiastethus exiguus**, prey, *Opisina arenosella* 2590

- Cardiochiles nigriceps**
foraging, *Physalis angulata* orchards 1602
hosts, *Heliothis subflexa* 1602
parasitoids, *Brachymeria pomonae* 599
- Carduus acanthoides**
biological control
fungi, USA 2473
insects, USA 2473
- Carduus nutans**
biological control
models 432
Rhinocyllus conicus, New Zealand 432
- Carduus thoermeri**
biological control
fungi 395
USA 2473
insects, USA 2473
Puccinia carduorum, USA 395
- Carmentis mimosa**, *Mimosa pigra*, biological control, Australia 1059
- Carnations**
Frankliniella occidentalis, USA 314
Fusarium oxysporum 1700, 2372
Fusarium oxysporum f.sp. *dianthi* Colombia 2375-2376
Italy 2373
- Carpinus betulus** forests, Eulophidae, Poland 2355
- Carpophilus hemipterus**
dates 2278
pathogens
Heterorhabditis 2278
Heterorhabditis bacteriophora 2278
Steinernema riobrave 2278
- Carrotus**
lemon orchards, India 198
prey
Chilades lajus 198
Papilio demoleus 198
- Carriers**, toxicity, natural enemies 666
- Carrots**, *Alternaria radicina* 1490
- Cartap**
nontarget effects, predatory arthropods 52, 1447
toxicity
Brachygastra lecheguana 2526
Cotesia glomerata 1130
Eretmocerus orientalis 1830
Oomyzus sokolowskii 450
- Cashew plantations**, *Oecophylla smaragdina*, Australia 908, 2292
- Cashews**, *Plocaederus ferrugineus*, India 2291
- Cassava**, *Phenacoccus manihoti* 2189
- Cassava × Manihot glaziovii**, *Phenacoccus manihoti* 2189
- Cassava odours**, effects, *Apoanagyrus lopezi* 2018
- Cassida rubiginosa**, weeds, biological control, USA 2473
- Castanea sativa**, *Cryphonectria parasitica*, Hungary 959
- Castnia penelope**
pathogens
Beauveria bassiana 212
Metarhizium anisopliae 212
pineapples 212
- Catharanthus roseus**, *Phytophthora nicotianae* var. *parasitica* 303
- Cathartus quadricollis**, *Hypothenemus obscurus*, biological control, USA 1618
- Catolaccus grandis**
Anthonomus grandis, biological control 272
biology 514
emergence 1263
hosts
Anthonomus grandis 1263, 1845, 1871, 1904, 2537
Callosobruchus maculatus 1871
insecticides, nontarget effects 2537
rearing techniques 496, 1871
- Cats**, rodents, integrated control, Guinea-Bissau 1727
- Cattle**, Nematoda, Brazil 1768
- Cattle dung**
Cooperia oncophora 2447
Duddingtonia flagrans, Denmark 2446
Ostertagia ostertagi, Denmark 2446
- Cauliflowers**, *Spodoptera litura*, India 802
- Cavariella konoii**, predators, *Adalia bipunctata* 676
- Cecidomyiidae**
apple orchards, Switzerland 170
maize fields, Spain 2132
population dynamics, *Prunus avium* plantations, Italy 2354
prey, *Myzus cerasi* 2354
- Cecidophyopsis ribis**
parasitoids, *Aprostocetus eriophyes* 1579
predators, Phytoseiidae 1579
- Cecoxenus**, revisions 2569
- Cecoxenus perspicax**
prey
Phenacoccus manihoti 2569
Saccharicoccus sacchari 2569
- Celery**, *Setpatria apicola* 98
- Celtis sinensis**, *Celtisaspis zhejiangana*, China 298
- Celtisaspis zhejiangana**
biological control, natural enemies, China 298
Celtis sinensis, China 298
- Cenchrus ciliaris**, *Parthenium hysterophorus*, interspecific competition 419
- Cenopalpus pulcher**, predators, Phytoseiidae 1578
- Centaurea diffusa**
biological control
insects, North America 430
Sphenoptera jugoslavica, USA 405
integrated control, *Sphenoptera jugoslavica*, USA 2499
natural enemies, *Larinus minutus* 1070
- Centaurea maculosa**
biological control 2501
Agapeta zoegana, USA 2495
insects, North America 430
integrated control, *Cyphocleonus achates*, USA 2496
natural enemies, *Larinus minutus* 1070
- Centaurea nigra**, natural enemies, seed predators 427
- Centaurea solstitialis**
biological control
Bangasternus orientalis, Italy 1798
Chaetorellia, USA 2472
insects, USA 2497
Puccinia jaceae 1062
Centaurea solstitialis, biological control, USA 2497
- Central Europe**, *Grypocentrus*, forests 2347
- Cephalcia abietis**
biological control, *Steinernema feltiae*, Austria 2366
Picea, Austria 2366
- Cephaleia abietis**, pathogens, *Steinernema kraussei* 559
- Cephalonomia**, hosts, *Hypothenemus hampei* 1194
- Cephalonomia hyalinipennis**
hosts, *Hypothenemus hampei* 1236
reproduction 1236
- Cephalonomia stephanoderis**
Hypothenemus hampei
biological control
Colombia 2318-2319
Mexico 2317
integrated control, Guatemala 246
prey, *Hypothenemus hampei* 1648
survival 2317
- Cephalonomia tarsalis**
hosts
Oryzaephilus surinamensis 1276
Plodia interpunctella 1276
Tribolium castaneum 1276
maize grain, USA 340
searching behaviour 1276
- Cephalonomia waterstoni**, maize grain, USA 340
- Cephus cinctus**
parasitoids
Bracon cephi 726
Bracon lissogaster 726
wheat, USA 726
- Cerace stipitana**
biological control, *Beauveria bassiana*, China 1681
Cinnamomum camphora, China 1681
- Ceraeochrysa cincta**, life history 1918
- Ceraeochrysa cubana**, life history 1918
- Ceraeochrysa smithi**, life history 1918
- Ceraphron**, hosts, *Dasineura gleditchiae* 313
- Ceraphronidae**
Citrus orchards, USA 2283
hosts, *Psilocorsis quercicella* 1685
- Ceratitis capitata**
parasitoids
Diachasmimorpha tryoni 2698
Fopius ceratitivorus 2316
- Ceratitis rosa**, parasitoids, *Fopius ceratitivorus* 2316
- Ceratocystis paradoxa**
antagonists, *Trichoderma* 1628
bananas 196
biological control, *Pseudomonas* 196
- Ceratomyces pyrenaicus**, hosts, *Hydrobius fuscipes* 2565
- Cercospora alternantherae**, hosts, *Alternanthera philoxeroides* 2454
- Cercospora caricis**, *Cyperus rotundus*, biological control 1058
- Cercospora xanthicola**, antagonism, *Xanthium spinosum* 1792
- Cereal fields**
Araneae, Finland 744
Syrphidae, keys, Argentina 1458
- Cereal grains**
Acari 337
stored products pests, Germany 2409
- Cereals**, *Penicillium roquefortii* 24
- Cernuella virgata**, pathogens, Nematoda 2788
- Cerocephala dinoderi**, hosts, *Sitophilus oryzae* 998
- Ceroplastes destructor**
Citrus, New Zealand 886
parasitoids, *Euxanthellus philippiae* 886
pathogens
Fusarium 886
Verticillium lecanii 886
- Ceroplastes japonicus**
biological control, *Chilocorus kuwanae*, Italy 966
food plants, Italy 966
Laurus, Italy 968
predators, *Rhyzobius forestieri* 968
- Ceroplastes sinensis**
Citrus, New Zealand 886
parasitoids, *Euxanthellus philippiae* 886
pathogens
Fusarium 886
Verticillium lecanii 886
- Cerura menciaana**, parasitoids, *Trichogramma closteriae* 530
- Ceutorhynchus assimilis**
parasitoids 1623
Trichomalus perfectus 1624, 1626, 2013, 2295, 2298
rape 1624
Germany 1626
UK 2298
USA 2295
- Ceutorhynchus portulacae**, sex differentiation 410
- Chaetomium cochliodes**, antagonism, *Botrytis cinerea* 836
- Chaetomium cochlioides**, plant pathogenic fungi, biological control 2125
- Chaetomium funicola**, antagonism, *Erysiphe graminis* 1426
- Chaetomium globosum**
antagonism
Cochliobolus sativus 2131
Erysiphe graminis 1426
Gibberella fujikuroi 1423
Sclerotinia sclerotiorum 515
Venturia inaequalis 2236
- Chaetomium olivaceum**, antagonism, *Venturia inaequalis* 2236
- Chaetorellia australis**, *Centaurea solstitialis*, biological control, USA 2472
- Chaetorellia succinea**, *Centaurea solstitialis*, biological control, USA 2472
- Chalcidoidea**
fields, Indonesia 12
hosts, *Bucculatrix ainisliella* 970
insecticides, toxicity 1118
street trees, Canada 970
- Chalcodermus persimilis**
Mimosa pigra, biological control 408

- Chalcodermus persimilis** cont.
new species 408
- Chalcodermus serripes**, *Mimosa pigra*, biological control 2476
- Chamaemyiidae**, Aphididae, biological control 1357
- Characterization**, insect viruses, restriction fragment length polymorphism 1856
- Chartocerus**, hosts, *Planococcus citri* 209
- Chauliognathus lugubris**
Bacillus thuringiensis, nontarget effects 1132
prey, *Chrysopharta bimaculata* 1132
- Chauliognathus pennsylvanicus**,
Cucurbitaceae fields, USA 1547
- Cheilomenes sexmaculata**
biology 2606
cannibalism 1292
Citrus orchards, India 203
field crop fields, India 780
hosts
Melanaphis indosacchari 2606
Melanaphis sacchari 2606
insect pests, biological control, India 229
insecticides, toxicity 465
kohlrabi fields, India 1509
lemon orchards, India 198
parasitoids, *Homalotylus eytelweinii* 2303
population dynamics 1509
prey
Acyrtosiphon pisum 518
Aphididae 1374
Aphidoidea 1446
Aphis craccivora 518, 777, 2179, 2588
Aphis gossypii 518, 2588, 2687
Aphis nerii 2687
Aulacorthum nipponicum 518
Aulacorthum solani 518
Chilades lajus 198
Lipaphis erysimi 228, 2588
Myzus persicae 518, 1509
Papilio demoleus 198
Pentalonia 2687
Rhopalosiphum maidis 2588
Sitobion akebiae 518
Spodoptera litura 1188
Toxoptera aurantii 203
Uroleucon compositae 2588
rearing techniques 1148
sunflower fields, India 229
Vigna catjang fields, India 2179
wheat fields, India 1446
- Cheiracanthium**
prey
Parlatoria orientalis 994
Pseudococcus gilbertensis 994
- Cheiracanthium inornatum**, field crop fields, India 780
- Chelisoche morio**, prey, *Stephanitis typicus* 1622
- Chelonus**
hosts, *Marasmia trapezalis* 2135
Pennisetum glaucum fields, India 2135
- Chelonus blackburni**
hosts, *Coryra cephalonica* 1107
insecticides, toxicity 1107
- Chelonus inanis**
development 2650
hosts, *Spodoptera littoralis* 619, 2042, 2650, 2726
juvenile hormones 2042
secretions 2726
- Chenopodium album**
Aphis fabae, Poland 1063
Harpalus rufipes 89
- Cherries**, *Monilia fructicola* 329
- Cherry orchards**, entomogenous fungi, Denmark 2242
- Chestnuts**
Cryphonectria parasitica 219, 958
France 2287
- Chetogena claripennis** complex
hosts, *Mamestra configurata* 1887
keys 1887
- Chetogena tachinomoides**
hosts, *Mamestra configurata* 1887
keys 1887
- Cheyletus eruditus**
Acari, biological control 1724
apple stores, Poland 1715
- Cheyletus eruditus** cont.
biology 1724
development 1921
prey, *Acarus siro* 1921
stored products pests, biological control 337
- Chickpea fields**, parasitoids, India 773
- Chickpeas**
Botrytis cinerea 765
Fusarium oxysporum f.sp. *ciceris* 1476
Helicoverpa armigera, India 778, 781, 1484
Macrophomina phaseolina 763
Pythium ultimum 1472
Sclerotinia sclerotiorum 2165
- Chicory**, *Sclerotinia sclerotiorum* 96
- Chilades lajus**
predators
Aneleis cardoni 198
Brumoides suturalis 198
Carrhotus 198
Cheilomenes sexmaculata 198
Coccinella septempunctata 198
Mantidae 198
Vespa orientalis 198
- Chile**
Lepidoptera, biological control, *Bacillus thuringiensis* 2357
Sirex noctilio, biological control 2094
- Chilo agamemnon**, pathogens, *Bacillus thuringiensis* 550, 620
- Chilo auricilius**
biological control
Sturmiopsis inferens, India 1637
Trichogramma chilonis, India 1631
sugarcane, India 1637
- Chilo infuscatellus**
biological control, granulosus viruses, India 927
parasitoids, *Telenomus beneficiens* 930
pathogens, granulosus viruses 2543
sugarcane
India 927
Taiwan 930
- Chilo orichalcolitellus**
parasitoids
Apanteles deplanatus 2592
Apanteles minator 2592
- Chilo partellus**
biological control, *Metarhizium anisopliae*, Kenya 2137
maize, Kenya 1442
parasitoids
Apanteles deplanatus 2592
Apanteles minator 2592
Cotesia flavipes 53, 735, 2002
Cotesia ruficornis 735
Cotesia sesamiae 2002
Stenobracon deesae 735
Sturmiopsis inferens 735
Telenomus 1442
Temelucha 735
Trichogramma 1442
Trichogramma exiguum 570
pathogens
Aspergillus flavus 1939
Metarhizium anisopliae 1939
pathogens *Bacillus thuringiensis*, hosts 53
sorghum
India 53
Kenya 2137
- Chilo sacchariphagus**
parasitoids, *Telenomus beneficiens* 930
sugarcane, Taiwan 930
- Chilo sacchariphagus indicus**, pathogens, *Hirsutiella nodulosa* 931
- Chilo sacchariphagus sacchariphagus**
parasitoids
Trichogramma chilonis 1638
Trichogramma ostriniae 1638
- Chilocorus**
Hemisarcophaga, symbiosis 1970
mandarin orchards, India 1596
population dynamics 1596
prey, Homoptera 1596
ultrastructure 1970
- Chilocorus baileyi**, *Aonidiella orientalis*, biological control, Australia 888
- Chilocorus bipustulatus**
Citrus orchards, Italy 1601
- Chilocorus bipustulatus** cont.
life history 1255
prey
Aonidiella aurantii 1255, 1601
Aspidiotus nerii 1255
Pseudaulacaspis pentagona 1255
Pseudaulacaspis pentagona, biological control 176
- Chilocorus cacti**
grapefruit orchards, Cuba 1597
prey, *Pinnaspis strachani* 1597
- Chilocorus circumdatus**
acaricides, nontarget effects 207
Aonidiella orientalis, biological control, Australia 888
orange orchards, Australia 207
prey
Aulacaspis rosarum 1910
Coccus viridis 1607
- Chilocorus hupehanus**, prey, *Aulacaspis rosarum* 1910
- Chilocorus kuwanae**
Ceroplastes japonicus, biological control, Italy 966
development 566
prey, *Aulacaspis rosarum* 1910
Unaspis euonymi
biological control 978
USA 312
- Chilocorus nigrita**
Citrus orchards, India 899
insecticides, nontarget effects 899
mandarin orchards, India 1596
orchards, India 2272
population dynamics 1596
prey
Aleurodicus dispersus 2272
Coccus viridis 1607
Homoptera 1596
Parlatoria orientalis 994
Pseudococcus gilbertensis 994
- Chilocorus nigrinus**
prey, *Abgrallaspis cyanophylli* 553
temperature 553
- China**
Acrididae, biological control, *Nosema locustae* 758
Anoplophora glabripennis, biological control, *Beauveria* 1682
Aphelinus albipodus, temperature 2583
beneficial arthropods
cotton fields 1661
wheat fields 1461
Celtisaspis zhejiangana, biological control, natural enemies 298
Comocritis albicapilla, *Litchi* 1595
cotton, integrated pest management 2335
Culicidae
biological control
Bacillus thuringiensis subsp. *israelensis* 1009
entomopathogenic bacteria 1754
Dendrolimus punctatus
biological control 299
Beauveria bassiana 1667
Echinochloa crus-galli, biological control, *Exserohilum monoceras* 2121
Helicoverpa armigera, *Bacillus thuringiensis*, resistance 453
Hemiberlesia pitysophila, biological control, *Coccobius azumai* 1227
Hymenoptera, rice fields 1457
insect pests
biological control 1352
integrated control 2142
Locusta migratoria manilensis, integrated control, *Nosema locustae* 1821
Metaphycus ericeri 2591
Microgaster, new geographic records 2057
Phyllocnistis citrella
biological control, Hymenoptera 202
Citrus 202
predatory arthropods, rice fields 737
Rhytidodera bowringii, biological control, *Beauveria bassiana* 205
rice, plant pathogens, biological control, *Xanthomonas oryzae* pv. *oryzae* 28
rodents, biological control, *Clostridium botulinum* 342

China cont.

- Semanotus bifasciatus sinoauster*, biological control, *Sclerodermus guani* 977
- Tessaratomia papillosa*, biological control, *Anastatus japonicus* 885
- Trapa*, biological control, insects 2506
- weeds, biological control 1352
- Xanthomonas oryzae* pv. *oryzae*, biological control 25
- Ziziphus mauritiana* orchards, beneficial arthropods 894
- China (Anhui)**, *Trichogramma closterae* 1213
- China (Beijing)**
beneficial insects, apple orchards 856
- Orius sauteri*, apple orchards 189
- China (Fujian)**
Aleurocybotus indicus, natural enemies 2050
- Batocera horsfieldi*, biological control, *Steinernema feltiae* 1669
- Cerace stipitata*, biological control, *Beauveria bassiana* 1681
- Culex quinquefasciatus*, biological control, *Clarias fuscus* 356
- Dasychira melli*, integrated control, *Beauveria bassiana* 1694
- Encarsia* 1182
- Lymantridae, biological control, *Beauveria bassiana* 1662
- Parocneria orientalis*, biological control, pathogens 1695
- China (Gansu)**, *Acantholyda piceicola*, integrated control 1814
- China (Guangdong)**
Culex quinquefasciatus, biological control, *Bacillus sphaericus* 1755
- Encarsia* 1182
- Hemiberlesia pitysophila*, biological control, *Coccobius azumai* 635
- China (Hebei)**, *Macrocentrus cingulum*, maize fields 745
- China (Hunan)**, Encyrtidae 2563
- China (Jiangsu)**, *Bacillus thuringiensis*, soil 1350
- China (Jiangxi)**, *Anastatus*, new species 1892
- China (Jilin)**, *Closteria anastomosis*, biological control, *Trichogramma dendrolimi* 960
- China (Shandong)**
Helicoverpa armigera, biological control, *Trichogramma chilonis* 938
- Trichogramma chilonis*, dispersal, cotton fields 938-939
- China (Sichuan)**, *Parocneria orientalis*, biological control, nuclear polyhedrosis viruses 973
- China (Xinjiang)**
Diuraphis noxia, biological control, Coccinellidae 46
- Scymnus tachengius*, wheat fields 46
- China (Yunnan)**, *Hypsipyla robusta*, biological control 281
- China (Zhejiang)**
Hymenoptera, fields 100
- Plutella xylostella*, biological control, *Bacillus thuringiensis* 2118
- Chinese cabbages**
Plasmiodiophora brassicae, India 99
- Plutella xylostella* 1508
- Chironomidae**
biological control, *Bacillus thuringiensis* subsp. *israelensis* 1763
- filter beds, UK 1763
- predators
Cottus gobio, Sweden 1766
- Gasterosteus aculeatus*, Sweden 1766
- Hesperoleucas symmetricus*, Sweden 1766
- Lepomis*, Sweden 1766
- Oreonectes platycephalus*, Sweden 1766
- Semotilus atromaculatus*, Sweden 1766
- Trapa*, biological control, Asia 2506
- Chironomus annularius*, pathogenicity 1007
- Chironomus riparius riparius*, pathogens, *Bacillus thuringiensis* subsp. *israelensis* 2435

Chitinase, *Metarhizium anisopliae* 2045

Chitinases, *Bacillus thuringiensis* subsp. *aizawai* 1298

Chlorfenapyr

nontarget effects, beneficial arthropods 2277

toxicity

beneficial insects 2524

predatory insects 1123

Chlorfluazuron

toxicity

Chrysoperla externa 1831

Cotesia glomerata 1130

Diadromus collaris 1112

Oomyzus sokolowskii 450

Chloropulvinaria polygonata

biological control, *Cryptolaemus montrouzieri*, India 877

mangoes, India 877

Chloropulvinaria psidii

biological control, *Cryptolaemus montrouzieri*, India 2271

guavas, Bangladesh 1180

lemons, India 2271

Chlorothalonil

nontarget effects

Beauveria brongniartii 1115

predatory insects 2534

Chlorpyrifos

compatibility, *Metarhizium anisopliae* 2442

nontarget effects

beneficial arthropods 942

beneficial insects 899, 2523

predatory arthropods 52

Trichogramma japonicum 1127

toxicity

Chelonus blackburni 1107

Eretmocerus orientalis 1830

Chlorpyrifos-methyl, nontarget effects, beneficial arthropods 1091, 2277

Chlosyne lacinia saundersii, predators,

Alcaeorrhynchus grandis 920

Chondrostereum purpureum, *Solanum dulcamara*, biological control, Netherlands 2466

Choristoneura fumiferana

Abies balsamea, Canada 297

biological control

Bacillus thuringiensis 2368

models 479

Trichogramma minutum, Canada 950

forest trees, Canada 950

parasitoids

Apanteles fumiferanae 950

Elachertus cacoeciae 297

Lypha setaefacies 950

Omotoma fumiferanae 950

pathogens

Bacillus thuringiensis 1304

Bacillus thuringiensis subsp. *kurstaki*

1931

Bacillus thuringiensis subsp. *sotto*

1931

Baculoviridae 2546

nuclear polyhedrosis viruses 280

Choristoneura occidentalis

pathogens

Baculoviridae 2546

nuclear polyhedrosis viruses 2081

Choristoneura rosaceana

parasitoids, *Macrocentrus nigridorsis*

2249

pathogens, *Bacillus thuringiensis* 2258

raspberries, Canada 2249, 2258

Chromatomyia

biological control, *Dacnusa sibirica*,

Austria 311

ornamental plants, Austria 311

Chromatomyia fuscata

barley, Norway 742, 755, 2136

parasitoids

Chrysoscharis pubicornis 742, 755

Cirrospilus vittatus 742, 2136

Cyrtogaster vulgaris 742, 755, 2136

Diglyphus begini 742, 755, 2136

Hemipterus unguicellus 755

Neochrysoscharis aratus 2136

Chromatomyia horticola

parasitoids

Braconidae 2173

Chromatomyia horticola cont.

parasitoids cont.

Diglyphus 2173

Guptaella indica 504

peas, India 2173

Chromolaena odorata

biological control

Acalitus adoratus, India 411

Procecidochares connexa, Indonesia

423

natural enemies

Pareuchaetes pseudoinsulata 1884

Zygoribatula keralensis 2474

Chromosome number, *Encarsia* 2715

Chromosomes, *Biosteres longicaudatus*

2035

Chondrostereum purpureum, woody

weeds, biological control 2462

Chrysanthemoides monilifera

biological control

Endophyllum osteospermi

Australia 392

South Africa 392

Mesoclanis polana, Australia 2471

Chrysanthemum, *Liriomyza trifolii*, Croatia

1706

Chrysoscharis

hosts, Agromyzidae 2742

insect communities, Argentina 2742

Chrysoscharis johnsoni, *Thevetia peruviana*

extracts, toxicity 1824

Chrysoscharis laomedon

Carpinus betulus forests, Poland 2355

hosts, *Lithocolletis carpinicolella* 2355

Chrysoscharis pentheus

aubergine fields, Japan 2220

hosts, *Liriomyza trifolii* 1702, 2220,

2386, 2614

Japan 1320

parasitoids, *Liriomyza trifolii* 1320

population dynamics 2220

reproduction 2614

Chrysoscharis phytomyzae, hosts, *Liriomyza*

huidobrensis 2174

Chrysoscharis pubicornis

barley fields, Norway 742

hosts, *Chromatomyia fuscata* 742, 755

Chrysodeixis chalcites

biological control, *Podisus maculiventris*,

Netherlands 820

Capsicum annuum, Netherlands 820

Chrysodeixis includens

pathogens, *Bacillus thuringiensis* 249

predators, *Nabis roseipennis* 771

Chrysolina hyperici, *Hypericum perforatum*,

biological control, Canada 434

Chrysomela lapponica, predators, *Phyllos-*

copus trochilus 1679

Chrysomela viginipunctata

parasitoids

Phoridae 1201

Schizonotus sieboldi 283, 1201

Steiniella callida 1201

Chrysomya albiceps, pathogens, *Bacillus*

thuringiensis 1019

Chrysomya megacephala

pathogens

Bacillus thuringiensis 1764

Bacillus thuringiensis subsp. *israelensis* 1764

Chrysonomomyia

hosts

Agromyzidae 2742

Liriomyza trifolii 72

insect communities, Argentina 2742

Chrysonomomyia okazaki, hosts, *Liriomyza*

trifolii 1702

Chrysopa

cotton fields, China 1661

grapefruit orchards, Cuba 1597

population dynamics 1661

prey, *Pinnaspis strachani* 1597

Chrysopa pallens

embryonic development 1253

mating behaviour 2012

rearing techniques 2556

Chrysoperla

prey, *Frankliniella occidentalis* 852

vineyards, Italy 852

Chrysoperla carnea

attractants 2669

- Chrysoperla carnea* cont.**
 azadirachtin, toxicity 1121
Bacillus thuringiensis toxins, toxicity 1099
 bioassays, synthetic diets 1099
 compound eyes 626
 cotton, interactions 1654
 cotton fields
 Egypt 1657-1658
 predation, USA 1656
Elettaria cardamomum orchards 1713
 fenoxycarb, nontarget effects 1836
 grasses 60
 habitats, USA 714
 host plants 585
 insect pests
 biological control 8
 India 229
 insecticides, toxicity 461, 1123, 2521
 maize fields, USA 1443
 malathion, resistance 2527
 methomyl, nontarget effects 1658
 mineral oils, effects 1834
 nuclear polyhedrosis viruses, nontarget effects 1125
 oviposition 585
Prays oleae, biological control, Portugal 2304
 predators
 Camponotus foreli 232
 Camponotus micans 232
 Crematogaster scutellaris 232
 Formica subrufa 232
 Hemiptera 1656
 Plagiolepis pygmaea 232
 Tapinoma nigerrimum 232
 prey
 Amrasca biguttula 1907
 Aphis gossypii 1658
 Bemisia tabaci 607
 Diuraphis noxia 60
 Frankliniella occidentalis 985
 Pentalonia nigronervosa 1713, 2398
 Prays oleae 917
 Tetranychus neocaledonicus 2671
 rearing techniques 1162, 1878
 searching behaviour 607, 2674
 sunflower fields, India 229
Tetranychus dellaris, biological control, India 2514
 vegetable pests, biological control, Egypt 2199
 wheat fields, Egypt 1456
- Chrysoperla externa***
 environmental factors 1919
 pesticides, toxicity 1831
 prey, *Helicoverpa zea* 1919
- Chrysoperla lucasina***
Aphis fabae, biological control, France 107
Thrips tabaci, biological control 2201
- Chrysoperla rufilabris***
 carriers, toxicity 666
 dispersal, *Dendranthema grandiflora* greenhouses 316
 insecticides, toxicity 2538
 prey
 Aphis gossypii 494
 Bemisia argentifolii 494
 Heliothis virescens 494
 Trichoplusia ni 494
 rearing techniques 494
 release techniques 1145
 synthetic diets 494
 vineyards, USA 1145
- Chrysophtharta bimaculata***, predators, *Chauiognathus lugubris* 1132
- Chrysopidae**
 apple orchards, Australia 864, 867
 insecticides, nontarget effects 867
 intercropping, cotton fields, Australia 1655
 maize fields, Spain 2132
 pear orchards, Spain 854
 potato fields, USA 2193
 prey
 Cacopsylla pyri 854
 Empoasca fabae 2193
 Eriosoma lanigerum 864
 Tetranychus urticae 867
- Chydarteres striatus***, parasitoids, *Labena fiorii* 1890
- Cicadellidae**
Heracleum, biological control 404
 predators
 Carabidae 754
 Lycosidae 754
 Orius insidiosus 1432
- Cinnamomum camphora***, *Cerace stipitata*, China 1681
- Cirrospilus***
 Citrus orchards, Brazil 1614
 hosts, *Acrocercops alysidota* 951
- Cirrospilus ambiguus***, hosts, *Liriomyza trifolii* 1702
- Cirrospilus diallus***
 lemon orchards, Italy 1600
Phyllocnistis citrella, biological control, Italy 1600
- Cirrospilus huangyanensis***
 new species 202
Phyllocnistis citrella, biological control, China 202
- Cirrospilus ingenuus***
Phyllocnistis citrella, biological control, USA 2284
 population dynamics 2284
- Cirrospilus lyncus***
 development 1960
 hosts, *Phyllocnistis citrella* 1173, 1231, 1960
 life cycle 1231
Phyllocnistis citrella, biological control, China 202
 rearing techniques 1173
- Cirrospilus pictus***
 hosts, *Phyllocnistis citrella* 1599
 lemon orchards, Italy 1600
 orange orchards, Italy 1599
Phyllocnistis citrella, biological control, Italy 1600
- Cirrospilus vittatus***
 barley fields, Norway 742, 2136
 hosts
 Chromatomyia fuscata 742, 2136
 Phyllocnistis labyrinthella 2136
 population dynamics 2136
Populus forests, Norway 2136
- Cirsium arvense***
Aphis fabae, Poland 1063
 biological control, *Sclerotinia sclerotiorum*, New Zealand 2469
- Cirsium canescens***, biological control, *Rhinocyllus conicus*, USA 420
- Cirsium undulatum***, biological control, *Rhinocyllus conicus*, USA 420
- Citrostichus phyllocnistoides***, *Phyllocnistis citrella*, biological control, China 202
- Citrus**
Aleurocanthus spiniferus, South Africa 1605
Aonidiella aurantii
 Italy 1601
 Turkey 1609
Ceroplastes, New Zealand 886
Coccus hesperidum, USA 208
Cribrolecanium andersoni, South Africa 1604
Dialeurolonga communis, South Africa 1603
Parabemisia myricae, Turkey 1610
Penicillium digitatum 2266
Penicillium italicum 216
Phyllocnistis citrella
 China 202
 Tunisia 903
 USA 211, 887, 2283-2284
Planococcus citri
 Australia 209
 Morocco 895
 postharvest decay 191-192
Scirtothrips citri 892
Toxoptera aurantii, India 203
Toxoptera citricidus, USA 2269
Unaspis yanonensis, France 884
- Citrus aurantiifolia***, *Phyllocnistis citrella*, Mexico 206
- Citrus aurantiifolia* orchards**
Coccus viridis, India 1607
 Hymenoptera, Mexico 206
- Citrus orchards**
 Araneae, Pakistan 1592
 beneficial insects, India 899
 Coccinellidae, India 203
Eretmocerus debachi, Turkey 1610
Galeopsomyia fausta, Brazil 897
 Hymenoptera, USA 208, 2283
 natural enemies, Italy 1601
 parasitoids, Brazil 1614
 Phytoseiidae, Cuba 2285
- Cladorrhinum foecundissimum***
 antagonism
 Pythium ultimum 807
 Rhizoctonia solani 807
- Cladosporium***
 antagonism, *Fusarium oxysporum* f.sp. *cumin* 320
 antagonists, *Candida sake* 326
 apples 326
 biological control, *Ulocladium atrum* 305
Lilium, Netherlands 305
- Cladosporium cladosporioides***
 antagonism, *Botrytis cinerea* 1551
Sphaerotheca fuliginea, biological control 810
- Cladosporium herbarum***, hosts, *Heterodera cajani* 2182
- Cladosporium uredinicola***, hyperparasitism, *Puccinia puta* 2063
- Clarias fuscus***, *Culex quinquefasciatus*, biological control, China 356
- Clarkus elongatus***, feeding behaviour 2706
- Classification**, *Bacillus thuringiensis* 2562
- Clavibacter xyli* subsp. *cynodontis***, hosts, *Ostrinia furnacalis* 739
- Climaciella brunnea***, prey, *Mozena obtusa* 416
- Climate**, biological control agents, models 2054
- Climatic change**, *Aphidius matricariae* 529
- Clinocentrus***
 hosts, *Zeiraphera canadensis* 2371
Picea glauca forests, Canada 2371
- Clitostethus arcuatus***, prey, *Aleurothrixus floccosus* 1612
- Clofentazine**
 nontarget effects, *Amblyseius andersoni* 870
 toxicity, *Adalia bipunctata* 1829
- Clostera***
Populus deltoides, India 285
 predators, *Scyamus collaris* 285
- Clostera anachoreta***, parasitoids, *Trichogramma closterae* 530
- Clostera anastomosis***
 biological control, *Trichogramma dendrolimi*, China 960
Populus, China 960
- Closterocerus***, Citrus orchards, USA 2283
- Closterocerus phenacapsia***, hosts, *Aonidiella orientalis* 2108
- Clostridium botulinum***, rodents, biological control, China 342
- Clovers**, insect pests, Belarus 919
- Clubionidae**, pome fruits, insect pests, biological control, Hungary, books 2098
- Cnaphalocrocis medinalis***
 integrated control, China 2142
 parasitoids
 Apanteles cypris 2604
 Elasmus johnstoni 748
 Goniozus 748
 Pediobius bruchicida 748
 pathogens
 Bacillus thuringiensis 2619
 Erynia radicans 1430
 rice, China 2142
- Coccidae**
 biological control, Aphelinidae 716
 greenhouse crops 716
 parasitoids
 Adelencyrtus brachycauda 2563
 Adelencyrtus chinensis 2563
 Microterys humanensis 2563
- Coccidencyrus longicaudatus***
 hosts, *Unaspis yanonensis* 1179
 new species 1179
- Coccidoxenoides peregrinus***, hosts, *Planococcus citri* 209
- Coccinella**
 nontarget effects 1621

Coccinella *cont.*

- prey, *Uroleucon carthami* 1621
- safflower fields, India 1621
- Coccinella septempunctata**
 - Acyrtosiphon pisum*, biological control 71
 - Capsicum annuum* fields, Romania 825
 - Coleomegilla maculata* interactions 2053
 - interspecific competition 786
 - feeding behaviour 600
 - Harmonia axyridis*, interspecific competition 2007
 - insect pests, biological control, India 229
 - insecticides
 - nontarget effects 2533
 - toxicity 1111
 - kohlrabi fields, India 1509
 - lemon orchards, India 198
 - maize fields, USA 1443
 - mandarin orchards, India 1596
 - Myzus persicae*, biological control, Romania 825
 - nontarget effects 1621
 - parasitoids, *Dinocampus coccinellae* 630, 1005
 - pecan orchards, USA 909
 - phenology, lucerne fields, USA 1469
 - population dynamics 1509, 1596
 - potato fields, USA 786
 - prey
 - Acyrtosiphon pisum* 567, 572, 600, 636, 1469, 2053
- Aphididae 1374
- Aphidoidea 1446
- Aphis craccivora* 2588
- Aphis gossypii* 2588
- Brevicoryne brassicae* 234
- Chilades lajus* 198
- Homoptera 1596
- Hyalopterus pruni* 2245
- Hypera postica* 567
- Lipaphis erysimi* 228, 234, 2588
- Myzus persicae* 234, 786, 1509
- Papilio demoleus* 198
- Rhopalosiphum maidis* 2588
- Uroleucon carthami* 1621
- Uroleucon compositae* 2588
- rape fields, India 234
- reproduction 567
- safflower fields, India 1621
- sunflower fields, India 229
- wheat fields, India 1446
- Coccinella transversalis**
 - cannibalism 1292
 - Citrus orchards, India 203
 - insecticides, toxicity 465
 - kohlrabi fields, India 1509
 - population dynamics 1509
 - prey
 - Aphididae 1374
 - Aphis craccivora* 2179, 2588
 - Aphis gossypii* 2588
 - Lipaphis erysimi* 2588
 - Myzus persicae* 1509
 - Rhopalosiphum maidis* 2588
 - Spodoptera litura* 1188
 - Toxoptera aurantii* 203
 - Uroleucon compositae* 2588
 - Vigna catjang* fields, India 2179
- Coccinella transversoguttata**
 - feeding behaviour 2008
 - prey
 - Acyrtosiphon pisum* 567
 - Hypera postica* 567
 - Phorodon humuli* 2008
 - reproduction 567
- Coccinella undecimpunctata**
 - cotton fields, Egypt 1657-1658
 - methomyl, nontarget effects 1658
 - prey
 - Aphis fabae* 544
 - Aphis gossypii* 1658
 - Bemisia tabaci* 607
 - Brevicoryne brassicae* 544
 - Myzus persicae* 544
 - searching behaviour 607
 - vegetable pests, biological control, Egypt 2199
 - wheat fields, Egypt 1456

Coccinellidae

- apple orchards
 - Australia 864, 867
 - Switzerland 170
- behaviour 2692
- cabbage fields, India 804
- crop fields, Hungary 17
- Czech Republic 1323
- Diuraphis noxia*, biological control, China 46
- insecticides, nontarget effects 867
- maize fields, Spain 2132
- olive orchards, Greece 918
- pecan orchards, USA 910, 2294
- population dynamics 2294
- Prunus avium* plantations, Italy 2354
- potato fields, USA 2193
- prey
 - Aphis gossypii* 137
 - Aphis sambuci* 2024
 - Brevicoryne brassicae* 804
 - Empoasca fabae* 2193
 - Eriosoma lanigerum* 864
 - Hyalopterus pruni* 2024
 - Macrosiphum euphorbiae* 1531
 - Myzus cerasi* 2354
 - Myzus persicae* 1531
 - Saissetia oleae* 918
 - Tetranychus urticae* 867
- reviews 660
- Coccinia grandis**
 - biological control, *Acyrtosiphon*, USA 1065
 - hosts, *Anthonomus grandis* 482
- Coccobius azumai**
 - Hemiberlesia ptyssophila*
 - biological control
 - China 635, 1227
 - Japan 1227
- Coccobius fulvus**, *Unaspis euonymi*, biological control, USA 312
- Coccoidea**
 - parasitoids
 - Aphytis melinus* 883
 - Coccophagus lycimnia* 883
 - Comperiella bifasciata* 883
 - Encarsia berlesel* 883
 - Metaphycus flavus* 883
- Coccophagus**
 - hosts
 - Cribrolecanium andersoni* 1604
 - Planococcus citri* 209
- Coccophagus bivittatus**, mango orchards, India 877
- Coccophagus gossypariae**
 - hosts, *Gossyparia spuria* 1896
 - redescriptions 1896
- Coccophagus lycimnia**
 - chromosome number 2715
 - hosts, Coccoidea 883
 - Turkey 883
- Coccophagus nigricorpus**, mango orchards, India 877
- Coccophagus palaeolecanii**
 - apple orchards, Turkey 865
 - hosts, *Palaeolecanium bituberculatum* 865
- Coccophagus pulvinariae**, hosts, *Cribrolecanium andersoni* 1604
- Coccophagus semicircularis**
 - Citrus orchards, USA 208
 - hosts, *Coccus hesperidum* 208
 - sex ratio 208
- Coccus hesperidum**
 - Citrus, USA 208
 - parasitoids, Hymenoptera 208
- Coccus viridis**
 - Citrus aurantiifolia orchards, India 1607
 - parasitoids, *Encyrtus lecaniorum* 1607
 - predators
 - Chilocorus circumdatus* 1607
 - Chilocorus nigrita* 1607
 - Cryptolaemus montrouzieri* 1607
- Cochlicella acuta**, pathogens, Nematoda 2788
- Cochliobolus carbonum**, antagonists, *Trichoderma koningii* 651
- Cochliobolus lunatus**
 - antagonists
 - Trichoderma harzianum* 443
 - Trichoderma longibrachiatum* 443

Cochliobolus miyabeanus

- biological control, *Pseudomonas fluorescens* 29
- rice 29
- Cochliobolus pallescens**
 - antagonists, *Bacillus megaterium* 56
 - hosts, *Meloidogyne javanica* 560
- Cochliobolus sativus**
 - antagonists
 - Chaetomium globosum* 2131
 - Pseudomonas chlororaphis* 35
 - Talaromyces flavus* 2131
 - Trichoderma hamatum* 2131
 - Trichoderma pseudokoningii* 2131
 - Trichothecium roseum* 2131
 - biological control 20
 - wheat 20, 2131
- Cochliotus melonanthoides**, pathogens, *Cor-dyceps* 1634
- Coconut plantations**, *Oecophylla longinoda*, Zanzibar 235
- Coconuts**
 - Coleoptera 231
 - Oryctes monoceros*, Tanzania 2307
 - Pseudotheraptus wayi*
 - Tanzania 921
 - Zanzibar 235
 - Stephanitis typicus* 1622
- Coenosia attenuata**, greenhouses, Italy 2091
- Coenosia strigipes**, greenhouses, Italy 2091
- Coenosia tigrina**
 - greenhouses, Italy 2091
 - pathogens, *Strongwellsea* 2433
- Coffee**
 - Hypothenemus hampei*
 - Colombia 1648, 2318-2319
 - East Africa 1644
 - Guatemala 246
 - Mexico 2317
 - Meloidogyne* 247
 - Pseudococcidae, Cuba 1647
 - Rosellinia bunodes* 932
- Coffee plantations**
 - Beauveria*, application, East Africa 1644
 - Fopius ceratitivorus*, Kenya 2316
 - Spalgis epeus*, India 933
- Colaspidea atrum**, pathogens, *Bacillus thuringiensis* 1319
- Cold storage**, effects, *Encarsia formosa* 2554
- Coleomegilla maculata**
 - attractants 2669
- Coccinella septempunctata**
 - interactions 2053
 - interspecific competition 786
 - feeding behaviour 1441
 - Harmonia axyridis*, interactions 1448
 - maize fields, USA 1441, 1443
 - pathogens, *Beauveria bassiana* 2034
 - pesticides, nontarget effects 138
 - potato fields, USA 90, 786
 - predation, maize fields, USA 1451
 - prey
 - Acyrtosiphon pisum* 2053
 - Aphididae 1451
 - Helicoverpa zea* 1440
 - Leptinotarsa decemlineata* 88
 - Myzus persicae* 786
 - searching behaviour 88
 - sweetcorn fields, USA 1448
 - tomato fields, USA 138
- Coleomegilla maculata lengi**, pecan orchards, USA 909
- Coleoptera**
 - food plants, *Hieracium pilosella* 1800
 - Hungary 1800
 - intercropping, cotton fields, Australia 1655
 - olive orchards, Spain 873
 - predators, *Ficedula hypoleuca* 1668
 - prey
 - Prays oleae* 873
 - Sogatella furcifera* 741
- Collection**, parasitoids 1143
- Colletotrichum capsici**
 - antagonists
 - Bacillus subtilis* 811
 - Pseudomonas fluorescens* 811
 - Saccharomyces cerevisiae* 808, 811
 - Trichoderma viride* 811
 - Capsicum*, India 808

- Colletotrichum coccodes*, *Abutilon theophrasti*, biological control 401
- Colletotrichum gloeosporioides*, hosts, *Abutilon theophrasti* 2468
- Colletotrichum musae*
antagonists
bacteria 194
yeasts 194
bananas 194, 196
biological control, *Pseudomonas* 196
- Colletotrichum orbiculare*
antagonism, *Xanthium spinosum* 1792
weeds, biological control, Australia 275
Xanthium spinosum, biological control 2481
- Colletotrichum truncatum*, culture techniques 1163
- Colocasia esculenta*, *Papuana uninodis* 85
- Colombia**
Cyrtomenus bergi, biological control, *Heterorhabdus bacteriophora* 1493
Diglyphus begini, *Phaseolus* fields 1485
Hypothenemus hampei
biological control
Bethyidae 2318
Cephalonomia stephanoderis 2319
Leptopharsa gibbicarina, biological control, *Crematogaster* 2301
Philephedra tuberculosa, biological control, *Verticillium lecanii* 2280
Rhammatocerus schistocercoides, biological control, *Metarhizium anisopliae* 1408
- Commelina communis*, natural enemies, *Lema scutellaris* 1074
- Communication**
Diapetimorpha introita 1257
Pimpla turionellae 1270
- Comocritis albicapilla*
Litchi, China 1595
pathogens, *Steinernema carpocapsae* 1595
- Comperiella bifasciata*
biological competition 582
hosts, *Coccoidea* 883
Turkey 883
- Comperiella lemniscata*, hosts, *Aonidiella orientalis* 200
- Competitive ability**, *Trichoderma* 517
- Composting**, *Pseudomonas putida* 487
- Compound eyes**, *Chrysoperla carnea* 626
- Compsilura**
hosts, *Mythimna separata* 1378
India 1378
- Compsilura concinnata*
genetic variation, USA 2033
hosts, *Lymantria dispar* 2359
Quercus rubra forests, Canada 2359
- Computer techniques**, *Trichogramma* 475
- Condylotylus erectus*
prey
Macrosiphum euphorbiae 1531
Myzus persicae 1531
- Conferences**
12th International Reinhardtsbrunn Symposium 1401, 1526-1527, 1559, 1793, 2125, 2791
3rd European conference on grain legumes 1476
7th international congress of plant pathology 791
9th International Congress of Pesticide Chemistry 1496, 2582
9th Meeting of Experimental and Applied Entomologists 787, 820, 999, 1197-1199, 1269-1270, 1355
Actes des Colloques Insectes Sociaux 2202, 2594
Agriculture and environment 2086
Agriculture in 21st century 1817
Annual meeting of agricultural scientists 104
Aphids in natural and managed ecosystems 1576, 2132, 2156, 2245
Armyworm—1998 2144-2145
Australian Society of Sugar Cane Technologists 1642
Bacterial and bacteria-like contaminants of plant tissue cultures 219, 302
Beltwide cotton conferences 126, 256-268, 272-274, 461, 496, 514, 588
- Conferences cont.**
Beltwide Cotton Conferences 2119, 2336, 2338-2339, 2341-2343, 2536-2538, 2627
Biological and biotechnological methods for plant protection 693
Biological control of gastro-intestinal nematodes of ruminants using predaceous fungi 1026-1035
Biological control of possums 1729-1730, 1860, 2092, 2413-2415
Biological control — research and practice 1690, 1716-1718, 2095
Brighton crop protection conference, pests and diseases 706, 708-709, 727-728, 797, 821, 826, 904, 958, 985-986, 1101-1102, 1109, 1141, 1151, 1214, 1366, 1386-1388
Challenges in applied population biology 2298, 2547, 2743, 2778-2779
Community-level dynamics in pest management 1451, 1469, 1656, 2087, 2489
Danish Plant Protection Conference, Pests and Diseases 119, 141
Developments in plantation crops research 2293
Disease resistance in fruit 165, 193
Ecological agriculture and sustainable development 229, 775, 802
Ecological aspects of horticultural production 2162-2163, 2185, 2197
Ecosystem approaches to managing insect pests of fruit 1582, 1844, 2021, 2056, 2246
En Gedi conference on bacterial control of agricultural insect pests and vectors of human diseases 1743-1744, 1750, 1764
First Hungarian Conference of Mycology 2759
First national symposium on pest management in 2227
First national symposium on pest management in horticultural crops: environmental implications and thrusts 2115-2116, 2223-2226, 2401, 2706
First transnational workshop on biological, integrated and rational control 695
Hawaii Macadamia Nut Association 1618
Insect pathogens and insect parasitic nematodes 1951-1953, 2101-2105, 2154, 2169-2170, 2200, 2242-2243, 2290, 2366, 2395-2396, 2404, 2439-2441, 2519, 2539, 2585, 2659, 2710, 2721, 2730, 2753, 2764-2765
Integrated control in oilseed crops 1623-1627, 2013
Integrated control in protected crops, Mediterranean climate 111
Integrated control in viticulture 166, 181-182, 694
Integrated pest management of major crops 544
Integrated plant protection in stone fruit 174
Integrated protection of stored products 1721-1727, 1942, 2097, 2405-2411
Integrated systems for noxious weed management on rangelands 430
Interactions in entomology 910, 1137, 1280
International conference on ecological agriculture 5, 14, 81, 1113
International Lupin conference 2381
International symposium on composting and use of composted materials for horticulture 487
International symposium on crop protection 712, 743, 767, 776, 836, 858-859, 895, 943, 1087, 1116-1117, 1370-1371
International Symposium on Cut Flowers in the Tropics 2373-2378, 2384, 2754
International symposium on effect of preharvest and postharvest factors on storage of fruit 2239, 2266
- Conferences cont.**
International symposium on growing media and hydroponics 2210
International Union of Pure and Applied Chemistry 1496, 2582
IUFRO 948-949, 1548
Leucaena — adaptation, quality and farming systems 1670
Mediterranean EWRS symposium 425-426
Methodology of forest insect and disease survey in Central Europe 948-949
Modern fungicides and antifungal compounds II 1401, 1526-1527, 1559, 1793, 2125, 2791
Ninth biennial noxious weeds conference 389
Novel Approaches to the Control of Helminth Parasites of Livestock 1039, 1050-1051
Parasite -insect interactions: reciprocal manipulation 631
Pest Management in Horticultural Crops: environmental implications and thrusts 1505-1506, 1540-1543, 1606-1607, 1732, 1818-1820, 1834-1835, 1855, 1878
PLACROSYM XII 2293
Proceedings of the 17th European Colloquium of Arachnology 857, 976, 1218, 1285
Proceedings of the 1998 cotton research meeting 940-942
Proceedings of the U.S. Army Corps of Engineers aquatic plant control research program review 424, 439
Protection and production of sugar beet and potatoes 2190
Recent development of biological control by beneficial nematodes 2389, 2518, 2561, 2644, 2647, 2719, 2786-2787, 2792
Rodent biology and management 2093
Second En Gedi conference on bacterial control of agricultural insect pests and vectors of human diseases 1745-1749, 1762-1763, 1859, 1875, 2096
Second international symposium on pistachios and almonds 905, 907, 1106
Seventh conference of agricultural development research 2265
Sixth International ISHS Symposium on Processing Tomato 2217-2218
Sixth International mycological congress 2790
The biology of gall-inducing arthropods 1579, 1672
The *Nassella* workshop 422
Third international symposium on olive growing 2304, 2544
Training in the control of *Sirex noctilio* by the use of natural enemies 2094
Transnational workshop on biological, integrated and rational control 107, 133-135, 169-172, 444, 633
Tropical veterinary medicine: molecular epidemiology, hemoparasites and their vectors, and general topics 1771-1772
Turkish Weed Science Congress 2455-2456
Twelfth forum for applied biotechnology 1340-1341
Vegetable and flower seed quality 707
Western Society of Weed Science 2496, 2499
Wheat: research needs beyond 2000 AD 2126
XX International Congress of Entomology 1582, 1844, 2021, 2056, 2246
- Coniatus tamarisci**
food plants, *Tamarix gallica* 418
life cycle, France 418
predators
Araneae 418
Nabis viridulus 418
Conidiobolus, cherry orchards, Denmark 2242
Coniothyrium, antagonism, *Cronartium ribicola* 1548

- Coniothyrium minitans**
antagonism
 Sclerotinia minor 2100
 Sclerotinia sclerotiorum 569, 792, 2100
 Botrytis cinerea, biological control 2790
 dispersal 569
 dyes, effects 1353
- Conocephalus longipennis**
prey, *Scirpophaga incertulas* 1459
rice fields, India 1459
- Conservation tillage**, effects, predatory arthropods 263
- Controlled release**, *Neoseiulus cucumeris* 1141
- Conura**, Citrus orchards, Brazil 1614
- Conura torvina**, hosts, *Cotesia glomerata* 798
- Convolvulus arvensis**
biological control
 Aceria malherbae, North America 2478
 Phomopsis convolvulus 394, 2461
 Canada 2500
 Stagonospora 1793
 Stagonospora convolvuli, Switzerland 429
 natural enemies, *Melanagromyza albicilia* 1071
- Conwentzia psociformis**, *Tetranychus urticae*, biological control, Spain 2257
- Cooperia oncophora**
biological control
 Duddingtonia flagrans 2447
 nematophagous fungi 2448
 cattle dung 2447
- Cooperia punctata**
biological control, *Arthrobotrys robusta*, Brazil 1768
cattle, Brazil 1768
nematophagous fungi
 Arthrobotrys conoides 1785
 Arthrobotrys musiformis 1785
 Arthrobotrys robusta 1785
- Copidosoma koehleri**, *Phthorimaea operculella*, biological control, Japan 1646
- Copidosomopsis tanytmemus**
Bracon hebetor, interspecific competition 1246
hosts, *Ephestia kuehniella* 1246
- Copper hydroxide**, toxicity, *Ageniaspis citricola* 1608
- Copper oxychloride**
compatibility, *Bacillus thuringiensis* 1842
nontarget effects, *Beauveria brongniartii* 1115
- Copper sulfate**, tolerance, *Trichoderma* 443
- Coptera haywardi**
diversity, orchards, Mexico 1615
hosts
 Anastrepha suspensa 1161
 Musca domestica 1161
 oviposition 1161
 rearing techniques 1161
- Coptosoma ostensum**, predators, *Synia melanaria* 2589
- Coptotermes acinaciformis**, biological control, *Metarhizium anisopliae*, Australia 1368
- Coptotermes frenchi**, biological control, *Metarhizium anisopliae*, Australia 1368
- Corcyr a cephalonica**
parasitoids
 Chelonus blackburni 1107
 Goniozus nephantidis 2551
 Trichogramma 526
 Trichogramma chilonis 1631, 2522
 Trichogramma exiguum 570
pathogens
 Steinernema 555
 Steinernema carpocapsae 558
predators
 Acanthaspis pedestris 2603
 Acanthaspis siva 1926
 Reduviidae 491
- Cordycepioides bisporus**
hosts, Isoptera 511
phylogenetics 511
- Cordyceps**
hosts, *Cochliotus melolonthoides* 1634
- Cordyceps cont.**
Tanzania 1634
- Coriandrum sativum**, *Chrysoperla carnea* 585
- Cornuermes cumulans**, biological control, entomogenous fungi, Brazil 2517
- Corticium rolfsii**
antagonism
 plant pathogenic fungi 127
 Trichoderma 2037
antagonists
 Gibberella zeae 2124
 Gliocladium virens 1482, 2579
 Pseudomonas fluorescens 2763
 Trichoderma 992
 Trichoderma harzianum 3, 812, 1482
 Trichoderma pseudokoningii 2392, 2578
 Trichoderma viride 3, 812
biological control, antagonists 1477
crops 3
 Phaseolus vulgaris 1477
 Piper betle 992
 vegetables 812
 wheat 2124
 Zingiber officinale 2392
- Coruna**
crop fields, UK 782
hosts, *Acyrtosiphon pisum* 782
- Corvus splendens**
prey
 Agrotis 1491
 Agrotis 1491
 Holotrichia 1491
- Corynebacterium glutamicum**
antagonism
 Fusarium 109
 Pythium 109
 Rhizoctonia 109
- Cosmopolites sordidus**
biological control
 entomophilic nematodes, Venezuela 2077
 South East Asia 700
 South Pacific 10
- Costa Rica**
Doryctobracon areolatus, guava orchards 901
Pestalotia, biological control, *Formicidae* 1675
Vochysia guatemalensis plantations, beneficial insects 965
- Cotesia**
hosts, *Pieris brassicae* 1897
new species, cabbage fields, South Africa 1897
- Cotesia chilonis**
hosts
 Diatraea grandiosella 2592
 Diatraea saccharalis 2592
- Cotesia congregata**
hosts
 Hyles lineata 627
 Manduca sexta 2717
 Pachysphinx occidentalis 627
 Smerinthus cerisyi 627
 Smerinthus salicetti 627
 Sphinx vashti 627
insect viruses, interactions 2717
moulting hormones 1306
prey, *Manduca sexta* 2009
- Cotesia flavipes**
hosts
 Chilo partellus 53, 735, 2002
 Diatraea grandiosella 2592
 Diatraea saccharalis 2592, 2705
 Sesamia calamistis 2002
 sorghum fields, India 735, 750
- Cotesia glomerata**
Brassicaceae habitats, Japan 2610
host-seeking behaviour 578
hosts
 Pericallia ricini 1186
 Pieris 578
 Pieris brassicae 621, 1501
 Pieris melete 2610
 Pieris napi 2610
 Pieris rapae 101, 798, 2610
insecticides, toxicity 1130
parasitoids
 Conura torvina 798
- Cotesia glomerata cont.**
parasitoids cont.
 Eulophidae 1186
 Tetrastichus galactopus 798
- Cotesia jucunda**, hosts, *Epirrita autumnata* 1666, 2358
- Cotesia marginiventris**, insecticides, toxicity 2524, 2538
- Cotesia melanoscela**
development 954
hosts, *Lymantria dispar* 954, 2359
 Quercus rubra forests, Canada 2359
- Cotesia melitaearum**
Europe 1287
hosts, *Melitaea cinxia* 634, 1287
- Cotesia plutellae**
behaviour 1284
biology 2611
cabbage fields
 Japan 801
 USA 1498
fields, China 100
hosts, *Plutella xylostella* 100, 801, 1284, 1498, 1504, 1924, 2611, 2626
insecticides, toxicity 2524
 Plutella xylostella
 biological control 2400
 USA 800
rearing techniques 1498
- Cotesia rubecula**
Brassicaceae fields, Canada 105
development 1223
host-seeking behaviour 578
hosts
 Pieris 578
 Pieris brassicae 1223
 Pieris rapae 105, 597, 644, 1223
new geographic records, Canada 644
- Cotesia ruficornis**
hosts
 Chilo partellus 735
 Mythimna separata 1378
India 1378
prey, *Mythimna separata* 2605
sex ratio 2605
sorghum fields, India 735, 750
- Cotesia sesamiae**
hosts
 Busseola fusca 1189
 Chilo partellus 2002
 Diatraea grandiosella 2592
 Diatraea saccharalis 2592
 Sesamia calamistis 1189, 2002
- Cotinis nitida**
pathogens
 Heterorhabditis bacteriophora 520
 Steinernema feltiae 520
 Steinernema glaseri 520
- Cotton**
Aleyrodidae 2338
Ambrosia grayi, USA 397
Anthonomus grandis, Mexico 272
Aphis gossypii
 Brazil 1649
 USA 258, 940, 2336
Bemisia, USA 261
Bemisia argentifolii, USA 260, 271
Bemisia tabaci
 Australia 937
 Egypt 1411, 1534
beneficial insects, interactions 1654
Burkholderia cepacia, USA 251
Chrysoperla carnea 585
Frankliniella occidentalis 1652
Fusarium oxysporum f.sp. *vasinfectum*, China 252
Helicoverpa, Australia 1655
Helicoverpa armigera, China 938
Heliothis, Australia 254
Heliothis virescens, USA 2330
insect pests
 biological control, India 2333
 China 1661
integrated control 255
integrated pest management
 China 2335
 USA 2340
Lygus, USA 256
Lygus lineolaris, USA 942
Noctuidae, USA 262, 264, 274, 2331
Pectinophora gossypiella 2332

Cotton cont.

- Phytophthora boehmeriae* 250
Trialeurodes abutiloneus, USA 269
 weeds

- Australia 275
 biological control, USA 265

Cotton fields

- beneficial arthropods

- China 1661
 India 1659
 USA 936, 942

- beneficial insects

- sampling 2343
 USA 268

- Chrysoperla carnea*, predation, USA 1656

- Encarsia formosa*, Egypt 1411

- Eretmocerus eremicus*, USA 271

- Hemiptera, Spain 944

- natural enemies 2341

- Orthomyces aleyrodes*, USA 269

- parasitoids, Australia 937

- predators, Egypt 1657

- predatory arthropods

- Egypt 1658

- intercropping, Australia 1655

- movement, USA 267

- sampling 2342

- USA 263, 2342

- Trichogramma chilonis*, dispersal, China 938-939

- Zelus renardii*, USA 270

- Cottus gobic*, prey, Chironomidae, Sweden 1766

- Cowpea grain**, *Callosobruchus chinensis* 999

Cowpea seeds

- Callosobruchus chinensis* 1942

- Callosobruchus maculatus*

- Niger 1720

- West Africa 2411

Cowpeas

- Aphis craccivora*, India 777, 2177

- Callosobruchus chinensis*, tropics 2405

- Callosobruchus maculatus*, Egypt 776

- Megalurothrips sjostedti*, Kenya 774

- Protomyces phaseoli*, Nigeria 2164

- Pythium aphanidermatum* 1473

Cranberries

- Galleria mellonella*, Canada 2260

- Otiorthochus sulcatus*, Canada 2260

- Crematogaster**, *Leptopharsa gibbicarina*, biological control, Colombia 2301

- Crematogaster scutellaris**, prey, *Chrysoperla carnea* 232

Cribrolecanium andersoni

- Citrus, South Africa 1604

- parasitoids

- Coccophagus* 1604

- Coccophagus pulvinariae* 1604

- Euxanthellus philippiae* 1604

- Metaphycus* 1604

- Neastymachus* 1604

- Tetrastichus* 1604

Crioceris asparagi

- asparagus, Netherlands 102, 787

- biological control, *Tetrastichus coerules*, Netherlands 102, 787

Croatia

- Botrytis cinerea*, biological control,

- Trichoderma harzianum* 1560

- Frankliniella occidentalis*, integrated control 1707

- Liriomyza trifolii*, integrated control 1706

- Metcalfa pruinosa*, biological control,

- Neodryinus typhlocybae* 1404

Crocidolomia pavonana

- pathogens

- granulosis viruses 2203

- nuclear polyhedrosis viruses 2203

Cronartium ribicola

- antagonists, *Coniothyrium* 1548

- Rubus glandulosus* 1548

Crop fields

- beneficial arthropods 1412

- beneficial insects, USA 714

- entomogenous fungi, spatial distribution, UK 2519

- predatory insects, Bulgaria 713

- Crop pests**, biological control, parasitoids 2774

Crops

- Botrytis cinerea* 2

- diseases, biological control, reviews 1

- Cruciferae extracts**, effects, *Metarhizium anisopliae* 1499

- Cryphonectria cubensis**, biological control, Brazil 956

Cryphonectria parasitica

- antagonists

- Bacillus subtilis* 219

- Pseudomonas* 2066

- biological control 958

- Cryphonectria parasitica* 959, 2287

- Castanea sativa*, Hungary 959

- chestnuts 219, 958

- France 2287

- Cryphonectria parasitica*, biological control 959, 2287

- molecular genetics 2707

Cryptastichus

- hosts, *Phyllocnistis citrella* 506

- new genus 506

Cryptastichus sabo

- hosts, *Phyllocnistis citrella* 506

- new species 506

- Cryptococcus albidus**, antagonism, *Botrytis cinerea* 1523-1524

Cryptococcus infirmo-miniatus

- antagonism, *Penicillium expansum* 843

- Monilinia fructicola*, biological control 329

Cryptococcus laurentii

- antagonism

- Botrytis cinerea* 327

- Penicillium expansum* 843

- postharvest decay 328

Cryptolaemus montrouzieri

- Chloropulvinaria polygonata*, biological control, India 877

- Chloropulvinaria psidii*, biological control, India 2271

- insecticides, toxicity 1090

- mango orchards, India 877

- Planococcus citri*, biological control 895

- Planococcus lilacinus*, biological control 1506

- prey

- Aleurodicus dispersus* 2109

- Coccus viridis* 1607

- Maconellicoccus hirsutus* 1732

- Pseudococcus viburni* 1533

Cryptophlebia saileri

- biological control, *Bacillus thuringiensis*, Chile 2357

- Prosopis tamarugo*, Chile 2357

Cryptostegia grandiflora

- biological control, *Maravalvia cryptostegiae*, Australia 2493

- natural enemies, *Nephele densoi* 1805

Ctenarytaina eucalypti

- biological control, *Psyllaephagus pilosus*, Irish Republic 990

- Eucalyptus*, Irish Republic 990

Ctenopseustis herana, biological control,

- Bacillus thuringiensis*, New Zealand 1582

Ctenopseustis obliquana, biological control,

- Bacillus thuringiensis*, New Zealand 1582

Cuba

- Bacillus thuringiensis* 1172

- Beauveria bassiana* 2782

- Bemisia tabaci*, natural enemies, reviews 1419

- Boophilus microplus*, biological control, *Verticillium lecanii* 1777

- Phytoseiidae 2114

- Citrus orchards 2285

- predatory arthropods, grapefruit orchards 1597

- Pseudococcidae, biological control,

- Heterorhabditis bacteriophora* 1647

Cucumber fields

- Encarsia formosa*, Egypt 1411

- predatory arthropods, Hungary 831

Cucumber greenhouses

- Encarsia formosa* 1536

- Neozygites parvispora*, Spain 139

Cucumbers

- Aleyrodidae, Belgium 136

- Aphidoidea 1538

Cucumbers cont.

- Aphis gossypii* 143

- France 135

- Italy 828

- Japan 2213

- Bemisia tabaci*, Egypt 1411

- Erysiphe* 1510

- Frankliniella occidentalis* 133, 141

- France 134

- Spain 139

- fungal pathogens 2206

- Fusarium*, Korea Republic 109

- greenhouse pests, Switzerland 140

- Hemiptera 142

- integrated control, France 827

- Phytophthora capsici* 816

- plant pathogenic fungi, Israel 1511

- Pythium*, Korea Republic 109

- Pythium aphanidermatum* 1516

- Pythium ultimum* 1521

- Rhizoctonia*, Korea Republic 109

- Sphaerotheca fuliginea* 118, 810

- Tetranychus urticae* 821

- Trialeurodes vaporariorum* 1536

- Cucurbitaceae fields**, beneficial insects, USA 1547

- Culex**, predators, *Anisops bouvieri* 1753

Culex antennatus

- pathogens, *Bacillus sphaericus* 1737

- predators 1738

- Egypt 1738

Culex erythrothorax, biological control,

- Bacillus* 1011

- Culex nigripalpus**, pathogens, *Bacillus thuringiensis* subsp. *israelensis* 2432

Culex pipiens

- pathogenicity 1007

- pathogens

- Bacillus sphaericus* 1744, 1750, 1752

- Bacillus thuringiensis* subsp. *israelensis* 1744, 1752

- predators

- Hydrometra stagnorum* 360

- Macrobrachium borellii* 349

Culex pipiens form molestus

- pathogens, *Bacillus sphaericus* 1737

- predators 1738

- Egypt 1738

Culex pipiens pallens

- pathogens

- Anabaena cylindrica* 358

- Anabaena subtropica* 358

Culex poicilipes

- predators 1738

- Egypt 1738

Culex pusillus

- predators 1738

- Egypt 1738

Culex quinquefasciatus

- biological control

- Bacillus sphaericus* 351

- China 1755

- Bacillus thuringiensis* subsp. *israelensis*, China 1009

- Clarias fuscus*, China 356

- entomopathogenic bacteria

- Burkina Faso 1733

- China 1754

- pathogens

- Bacillus sphaericus* 1735, 1756

- Bacillus thuringiensis* 1734

- Bacillus thuringiensis* subsp. *israelensis* 1140

- Lagenidium giganteum* 2427

- Leucothecium emdenii* 2422

- Penicillium corylophilum* 2431

- Penicillium fellutanum* 2431

- Penicillium implicatum* 2431

- Penicillium janthinellum* 2431

- Penicillium viridicatum* 2431

- Penicillium waksmanii* 2431

- predators

- Anisops glauca* 1741

- Poecilia reticulata* 355

- urban areas, China 356

Culex salinarius, parasites, *Amblyospora salinaria* 1174**Culex tarsalis**

- biological control, *Bacillus* 1011

- parasites, *Thyasides sphagnum* 359

- Culex theileri***
predators 1738
Egypt 1738
- Culex univittatus***
predators 1738
Egypt 1738
- Culicidae**
biological control
Bacillus thuringiensis, Hungary 1748
Bacillus thuringiensis subsp. *israelensis*
Hungary 1747
Italy 1746
lakes, Hungary 1747
pathogens, *Penicillium* 2425
- Culicoides nubeculosus**, pathogens, *Bacillus thuringiensis* subsp. *aizawai* 1298
- Culicoides variipennis sonorensis***, pathogens, *Heleidomermis magnapapula* 354
- Culiseta inornata***, parasites, *Thyasides sphagnum* 359
- Culiseta longiareolata***
predators 1738
Anax imperator 2429
Egypt 1738
- Culiseta morsitans***, pathogenicity 1007
- Culiseta subochrea***
predators 1738
Egypt 1738
- Culture media**
Trichoderma viride 2549
Trichogramma ostriniae 1880
- Culture techniques**
Ampelomyces quisqualis 1152, 1510
Bacillus thuringiensis 493, 498, 1164, 1875
Bacillus thuringiensis subsp. *israelensis* 1859
Baculoviridae 2061
Beauveria bassiana 490, 1167
Botrytis cinerea 1151
entomogenous fungi 1163
Heterorhabditis megidis 1150
Metarhizium anisopliae 1879
nuclear polyhedrosis viruses 1863, 2550
Paecilomyces fumosoroseus 1872
Pandora neophidius 1877
Parastroglyoides trichosuri 1860
Pasteuria penetrans 2560
Steinernema carpocapsae 500
Verticillium chlamydosporium 499
Verticillium lecanii 1159
- Cuminum cyminum***, *Fusarium oxysporum* f.sp. *cumini* 320-321
- Cunaxidae**, Indonesia 1177
- Cunninghamia lanceolata***
Dasychira melli, China 1694
Semanotus bifasciatus sinoauster, China 977
- Cupressus***, *Parocneria orientalis*, China 973
- Cupressus funebris***, *Parocneria orientalis*, China 1695
- Curlio nucum***
hazelnuts, Turkey 1617
pathogens
Bacillus thuringiensis 1617
Escherichia coli 1617
Micrococcus luteus 1617
Pseudomonas fluorescens 1617
Serratia marcescens 1617
- Curculionidae**
Heracleum, biological control 404
pathogens, *Metarhizium anisopliae* 2154
- Curculionoidea**, natural enemies 721
- Curvularia***, hosts, *Meloidogyne javanica* 560
- Cuscuta japonica***, biological control, plant pathogenic fungi 1056
- Cuscuta reflexa***, biological control, plant pathogenic fungi 1056
- Cuspicona forticornis***, parasitoids, *Trichopoda giacomellii* 2616
- Cuticle**, *Muscidifurax* 1297
- Cyathostominae**, biological control 374
- Cybocephalus nipponicus***, *Aulacaspis tubercularis*, biological control, South Africa 893
- Cybocephalus nipponicus***
predation 606
prey
Pseudaulacaspis pentagona 2680
Quadraspidiotus perniciosus 606
- Cybocephalus nipponicus* cont.**
prey cont.
Unaspis eunymyi 606
Unaspis eunymyi, biological control, USA 312
- Cyclocephala**
pathogens
Bacillus cereus 2587
Pantoea agglomerans 2587
- Cyclocephala hirta***
pathogens
Bacillus thuringiensis subsp. *japonensis* 1390
Heterorhabditis bacteriophora 1390
Steinernema glaseri 1390
- Cyclocephala pasadenae***
pathogens
Bacillus thuringiensis subsp. *japonensis* 1390
Heterorhabditis bacteriophora 1390
Steinernema glaseri 1390
- Cycloneda munda***, pecan orchards, USA 909
- Cycloneda sanguinea***
prey
Macrosiphum euphorbiae 1531
Myzus persicae 1531
Tuta absoluta 1196
- Cyclotrachelus alternans***, fields, USA 13
- Cydia pomonella***
apples 183-184
Canada 872
Switzerland 178
USA 863
biological control
entomophilic nematodes 875, 1567
granulosis viruses, France 712, 860
Trichogramma platneri, Canada 872
fruits, France 860
parasitoids
Eulophidae 178
Ichneumonidae 178
Perilampidae 178
Pnigalio flavipes 863
Tachinidae 178
- Cydia***
pathogens
granulosis viruses 183-184, 1853
Steinernema krausse 559
pome fruits 875
predators, predatory mites 863
- Cydia succedana***, *Ulex europaeus*, biological control, New Zealand 1806
- Cydoseius negevi***, development 2630
- Cyfluthrin**
compatibility, *Metarhizium anisopliae* 2442
nontarget effects
Anthonomus grandis 1845
beneficial arthropods 942
Typhlodromus pyri 1568
toxicity
Episyrphus balteatus 1117
predatory insects 461, 1123
- Beta-cyfluthrin**, toxicity, beneficial insects 457
- Cyhalothrin**
nontarget effects, *Orius insidiosus* 2536
synergism, *Beauveria bassiana* 2360
toxicity
Coccinellidae 1111
Oomyzus sokolowskii 450
- Lambda-cyhalothrin**
nontarget effects, *Trichogramma pretiosum* 459
toxicity
beneficial insects 457
Episyrphus balteatus 1117
- Cylas formicarius***, pathogens, *Beauveria bassiana* 2782
- Cylas formicarius elegantulus***
pathogens
Beauveria bassiana 1938
Paecilomyces fumosoroseus 1938
- Cylindrocladium***
antagonists, *Trichoderma* 880
avocados 880
- Cynipoidea**, insecticides, toxicity 1118
- Cynoglossum officinale***, biological control, *Erysiphe cynoglossi*, Canada 2464
- Cypermethrin**
nontarget effects
Diglyphus isaea 1098
- Cypermethrin cont.**
nontarget effects cont.
Micromus tasmaniae 448
predatory mites 1569
synergism, *Beauveria bassiana* 2360
toxicity
Chelonus blackburni 1107
Chrysoperla carnea 2521
Episyrphus balteatus 1117
- Alpha-cypermethrin**
nontarget effects, parasitoids 1835
toxicity, *Adalia bipunctata* 1829
- Cyperus rotundus***, biological control, *Cercospora caricis* 1058
- Cyphocleonus achates***, *Centaurea maculosa*, integrated control, USA 2496
- Cyromazine**
nontarget effects, *Diglyphus isaea* 1098
Opius concolor 1122
- Cyrtobagous salviniae***, *Salvinia molesta*, biological control 2510
- Cyrtogaster vulgaris***
barley fields, Norway 742, 2136
hosts, *Chromatomyia fuscata* 742, 755, 2136
population dynamics 2136
- Cyrtomenus bergi***, biological control, *Heterorhabditis bacteriophora*, Colombia 1493
- Cyrtopeltis tenuis***
functional responses 1312
prey, *Spodoptera litura* 1312
- Cyrtorhinus lividipennis***
prey, *Scirpophaga incertulas* 1459
rice fields, India 1459
- Cyrtorhinus lividipennis***
agricultural chemicals, nontarget effects 2534
insecticides, nontarget effects 52, 1447
neem seed extract, nontarget effects 445
prey
Nephotettix virescens 2663
Nilaparvata lugens 2663
Sogatella furcifera 2663
rice fields, India 52, 1447
- Cytisus scoparius***, biological control, insects 2485
- Cytophaga***, antagonism, *Magnaporthe grisea* 1299
- Cytoplasmic polyhedrosis viruses**
hosts
Helicoverpa armigera 1381
Morua vitrata 1365
- Cyzenis albicans***
habitats, Canada 1570
hosts, *Operophtera brumata* 1570
- Czech Republic**
Adalia bipunctata 676
Araneae, population dynamics, apple orchards 1844
beneficial arthropods
apple orchards 1135
pear orchards 857
Coccinellidae 1323
Diuraphis noxia, biological control, *Aphidius colemani* 2139
parasitoids 1201
Sinophorus turionus, maize fields 1454
Steinernematidae, hop fields 2395
- 2,4-D**
effects, *Pimpla contemplator* 1840
nontarget effects, Carabidae 467
- Daenusa sibirica***
Agromyzidae, biological control, Austria 311
hosts, *Liriomyza trifolii* 1093
pesticides, toxicity 1093
- Dactylopius opuntiae***, *Opuntia stricta*, biological control, South Africa 1072, 2488
- Dalbergia sissoo***, *Inglisia bivalvata*, India 276
- Damasonium minus***, biological control, *Rhynchosporium alismatis* 433, 2508
- Danaus plexippus***, pathogens, *Ophryocystis elektroscirra* 2623
- Dasineura gleditiae***
Gleditsia triacanthos
galls 313
USA 313
parasitoids 313

- Dasineura gleditiae* cont.
predators, *Orius tristicolor* 313
- Dasychira melli*
Cunninghamia lanceolata, China 1694
integrated control, *Beauveria bassiana*, China 1694
- Dasyhippus barbipes*, biological control, *Nosema locustae*, China 758
- Date orchards**, *Aphytis*, Egypt 859
- Dates**
Nitidulidae 2278
Parlatoria blanchardii, Egypt 859
- Datura stramonium*, biological control, *Alternaria crassa* 400
- Deanolis sublimbalis*, biological control, South East Asia 700
- Debaryomyces hanseni*
antagonism
Botrytis cinerea 2268
Penicillium digitatum 2268
Penicillium italicum 2268
postharvest decay, biological control 879
- Delia antiqua*
predators
Pterostichus chalcites 2147
Pterostichus lucublandus 2147
Pterostichus melanarius 2147
Pterostichus permundus 2147
- Delia floralis*
biological control
entomogenous fungi 805
natural enemies, Russia 1502
Brassicaceae, Russia 1502
cabbages, Finland 805
pathogens, entomogenous fungi 2765
- Delia radicum*
biological control, entomogenous fungi 805
cabbages
Finland 805
UK 797
parasitoids, *Trybliographa rapae* 563, 1278
pathogens
Beauveria bassiana 2200
Metarhizium anisopliae 2200
Paecilomyces fumosoroseus 2200
- predators
Aleochara bilineata 2017
Carabidae 797
- Delphacidae**
integrated control, China 2142
predators, *Nerine radiata* 976
Pseudotsuga menziesii, Austria 976
rice, China 2142
- Delphastus catalinae*, rearing techniques 1865
- Delphastus pusillus*
Bemisia tabaci, biological control, Egypt 1534
feeding behaviour 2677
- Deltamethrin**
nontarget effects
Araneae 744
parasitoids 1825
Trichogramma brassicae 1108
Trichogramma pretiosum 459
- toxicity
beneficial arthropods 444
beneficial insects 457
Chrysoperla carnea 2521
Episyrphus balteatus 1117
Eretmocerus orientalis 1830
Metarhizium anisopliae 458
Oomyzus sokolowskii 450
Suppatus cincticeps 462
- Demeton-S-methyl**, toxicity, *Amblyseius* 2530
- Dendranthema grandiflora* greenhouses, natural enemies, dispersal 316
- Dendrocerus carpenteri*
foraging 2003
host-seeking behaviour 2696
hosts
Acyrtosiphon pisum 2003
Aphidius ervi 1004, 2696
Metopolophium dirhodum 50
Rhopalosiphum padi 50
Sitobion avenae 50
- Dendrocopos syriacus*, prey, *Phoracantha semipunctata*, Mediterranean Region 1684
- Dendrolimus kikuchii*
parasitoids
Anastatus huangii 1892
Anastatus meilingensis 1892
- Dendrolimus punctatus*
biological control
Beauveria bassiana, China 1662, 1667
China 299
forest trees, China 1662
parasitoids
Anastatus huangii 1892
Anastatus meilingensis 1892
pathogens, *Beauveria bassiana* 1220, 1380
Pinus massoniana, China 299
- Dendrolimus superans*, pathogens, *Bacillus thuringiensis* 469
- Dendrolimus tabulaeformis*, parasitoids, *Mesocorys aegeriae* 505
- Denmark**
Botrytis cinerea, biological control, fungi 119
Duddingtonia flagrans, cattle dung 2446
entomogenous fungi, cherry orchards 2242
Ephestia kuehniella, biological control, natural enemies 2408
greenhouse pests, biological control 2101
Heterorhabditis, geographical distribution 2752
Metarhizium anisopliae, dispersal, crop fields 2154
Ostertagia ostertagi, biological control, *Duddingtonia flagrans* 2450
- Deraeocoris*, cotton fields, Spain 944
- Deraeocoris nebulosus*
life cycle 548
prey, *Bemisia argentifolii* 548
- Deraeocoris ruber*, hedges, France 633
- Dermacentor*, parasitoids, *Ixodiphagus* 1025
- Dermacentor variabilis*
parasitoids
Ixodiphagus hookeri 370
Peromyscus leucopus 370
- pathogens
Heterorhabditis bacteriophora 1771
Steinernema carpocapsae 1771
Steinernema feltiae 1038, 1771
Steinernema glaseri 1771
Steinernema riobrave 1038, 1771
- Dermatophagoides farinae*, predators, *Neoseiulus californicus* 1575
- Dermolepida albobirtum**
biological control
Metarhizium 1636
Metarhizium anisopliae, Australia 1642
sugarcane, Australia 1636, 1642
- Deroceras reticulatum*, predators, *Pterostichus madidus* 2090
- Destruixins**, *Bacillus thuringiensis* subsp. *kurstaki*, synergism 1333
- Detection**
enzyme immunoassay, *Euzophera pinguis* 2544
granulosis viruses 1853
Hymenoptera, ELISA 483
nuclear polyhedrosis viruses 480
polymerase chain reaction, *Aphelinus* 1851
- Deudorix isocrates**
parasitoids
Apanteles 2281
Brachymeria lasus 2281
Telenomus 2281
pomegranates, India 2281
- Development**
Acanthaspis siva 1926
Agrothereutes lanceolatus 2654
Amblyseius fallacis 1191
Apanteles carpatus 1728
Aphelinus albipodus 2649
Aphelinus asychis 2649
Aphelinus gossypii, melons 1544
Aphidius ervi 1250
Braconidae 565
Chelonius inanitus 2650
- Development cont.**
Cheyletus eruditus 1921
Chilocorus kuwanae 566
Cirrospilus lyncus 1960
Cotesia melanoscela 954
Cotesia rubecula 1223
Cydnozeius negevi 2630
Encarsia pergandiella 2631
Lysiphlebia mirzai 1243
Lysiphlebus testaceipes 2670
Microvelia horvathi 519
Neoseiulus longispinosus 1191
Orius strigicollis 2620
Teretriosoma nigrescens 2673
Trichomalopsis sarcophagae 364
Typhlodromus occidentalis 1191
- Diabrotica virgifera virgifera*
pathogens
Heterorhabditis 1199
Steinernema 1199
- Diachasmimorpha tryoni*
host-seeking behaviour 2698
hosts
Bactrocera tryoni 2635
Ceratitis capitata 2698
Eutreta xanthochaeta 2698
- Diadegma**, insecticides, nontarget effects 1825
- Diadegma apostata*
aubergine fields, India 1529
hosts, *Leucinodes orbonalis* 1529
- Diadegma insulare*
broccoli fields, Mexico 803
cabbage fields, USA 800, 1498
diets, rearing techniques 1862
hosts, *Plutella xylostella* 800, 803, 1498, 1862
rearing techniques 1498
- Diadegma terebrans*
biology 1922
hosts, *Ostrinia nubilalis* 1455, 1922
maize fields, USA 1455
- Diadiplosis pseudococci*
Pheidole megacephala, interactions 1616
pineapple plantations, USA 1616
- Diadromus collaris*
biology 1112
fields, China 100
hosts, *Plutella xylostella* 100, 1112
insecticides, toxicity 1112
- Diadromus pulchellus*
host-seeking behaviour 1993
hosts, *Acrolepiopsis assectella* 1993
- Diadromus subtilicornis*
cabbage fields, Japan 801
hosts, *Plutella xylostella* 801
- Diaeretiella rapae*
barley fields, USA 2148
host-seeking behaviour, models 595
hosts
Acyrtosiphon lactucae 1975
Aphidoidea 222
Brachycaudus tragopogonis 1975
Brachycorynella asparagi 1975
Braggia 1975
Brevicoryne brassicae 236, 595, 1627, 1975
Diuraphis noxia 725, 740, 1975, 2148
Dysaphis plantaginea 1975
Hayhurstia atriplicis 1975
Lipaphis erysimi 236
Myzus persicae 236, 1509, 1530, 1975
Phorodon humuli 1975
Uroleuon ivae 1975
kohlrabi fields, India 1509
new host records, USA 1975
population dynamics 1509
vegetable pests, biological control, Egypt 2199
wheat fields, Egypt 1456
- Dialeurodes citri*, predators, *Serangium parcesetosum* 1964
- Dialeurodes pallida*
Piper belle
biological control, Acari, India 2315
India 2315
- Dialeuroloa communis*
Citrus, South Africa 1603
parasitoids, *Eretmocerus* 1603

Diapause

- Aphidius ervi* 2041
Orius sauteri 2618
Diapetimorpha introita
 communication 1257
 diet 1216
 hosts
Spodoptera 1216
Spodoptera exigua 1257
Spodoptera frugiperda 1257

Diaphania ptyalis

- pathogens
Nosema 1916
Nosema bombycis 1916

Diaphorina citri, biological control, South East Asia 700**Diaprepes abbreviatus**

- biological control, *Steinernema*, USA 2274
 pathogens
Beauveria bassiana 466
Metarhizium anisopliae 466

Diaspididae

- biological control, Aphelinidae 716
 greenhouse crops 716

Diaspidiotus ostraeiformis, biological control, *Hemisarcophaga coccophagus*, New Zealand 1565**Diaspidiotus perniciosus**

- biological control, *Hemisarcophaga coccophagus*, New Zealand 1565
 parasitoids, *Aphytis aonidiæ* 523

Diastrophus rubi

- parasitoids, *Torymus rubi* 871
 raspberries, Italy 871

Diatomite, nontarget effects, *Anisopteromalus calandrae* 2531**Diatraea grandiosella**

- parasitoids
Cotesia chilonis 2592
Cotesia flavipes 2592
Cotesia sesamiae 2592

Diatraea rufescens

- parasitoids
Trichogramma galloi 1988
Trichogramma pretiosum 1988

Diatraea saccharalis

- parasitoids
Cotesia chilonis 2592
Cotesia flavipes 2592, 2705
Cotesia sesamiae 2592
Trichogramma galloi 1988
Trichogramma pretiosum 1988

Dialoulomorpha, hosts, *Acrocerops alysidota* 951**Diazinon**, nontarget effects, *Aphidius colemani* 1277**Dicamba**, nontarget effects, Carabidae 467**Dichlofluanid**

- nontarget effects
Trichogramma cacaeciae 2535
Typhlodromus pyri 446

Dichlorbenzuron, nontarget effects, beneficial insects 1838**Dichlorvos**

- toxicity
Cryptolaemus montrouzieri 1090
Exorista japonica 1094
Pediobius foveolatus 1131

Diadlaspia armigera, pathogens, *Beauveria bassiana* 1167**Dicofol**, nontarget effects, *Amblyseius andersoni* 870**Dicrotophos**, nontarget effects, beneficial arthropods 942**Dicrurus adsimilis**, prey, *Spodoptera litura* 1188**Dicyma pulvinata**, hosts, *Fulvia fulva* 122
Dideopsis aegrota, prey, *Aphis craccivora* 2695**Diet**

- Agistemus hystrix* 1219
Diapetimorpha introita 1216

Diets

- Diadegma insulare*, rearing techniques 1862
 Noctuidae 1237
Podisus nigrispinus 1873

Differentiation, *Beauveria bassiana* 382**Diflubenzuron**

- nontarget effects
 beneficial arthropods 857
 Coccinellidae 1621
Micromus tasmaniae 448
Stratiolaelaps miles 1712
Trichogramma pretiosum 459
Opius concolor 1122
 toxicity
Ageniaspis citricola 1608
Chrysoperla externa 1831

Digestion, predatory arthropods 1302**Digestive system**, *Perillus bioculatus* 629**Diglyphus**

- hosts, *Chromatomyia horticola* 2173
 pea fields, India 2173

Diglyphus albiscapus

- aubergine fields, Japan 2220
 hosts, *Liriomyza trifolii* 2220, 2386
 population dynamics 2220

Diglyphus begini

- barley fields, Norway 742, 2136
 hosts
Chromatomyia fuscata 742, 755, 2136
Liriomyza sativae 1485

- Phaseolus* fields, Colombia 1485
 population dynamics 2136

Diglyphus isaea

- aubergine fields, Japan 2220
 hosts, *Liriomyza trifolii* 1093, 2220, 2614
 insecticides, nontarget effects 1098
Liriomyza bryoniae, biological control 829
 milbemectin, toxicity 2528
 pesticides, toxicity 1093
 population dynamics 2220
 reproduction 2614

Diglyphus pusztensis

- aubergine fields, Japan 2220
 hosts, *Liriomyza trifolii* 2220
 population dynamics 2220

Diglyphus websteri, hosts, *Liriomyza huidobrensis* 2174**Dimethoate**

- nontarget effects
Anthonomus grandis 1845
 Araneae 744
 beneficial arthropods 942
 beneficial insects 899
Coccinella septempunctata 2533
 predatory arthropods 1109
Rhynocoris 452
Rhynocoris kumarii 2529

toxicity

- Cotesia glomerata* 1130
Cryptolaemus montrouzieri 1090
Oomyzus sokolowskii 450
 predatory arthropods 465
Rhynocoris fuscipes 464

Dinarmus acutus, hosts, *Callosobruchus maculatus* 1000**Dinarmus basalis**

- Callosobruchus maculatus*, biological control, West Africa 2411
 hosts, *Callosobruchus maculatus* 1000, 2552, 2581
 oviposition 1994
 parasitoids, *Eupelmus vuilleti* 2581
 release 2552

Dinocampus coccinellae

- hosts, *Coccinella septempunctata* 630, 1005
 peptides 630

Dinocap, toxicity, *Typhlodromus pyri* 179**Diolcogaster**, taxonomic revisions, Australasia 1898**Dione juno**, predators, *Podisus nigrispinus* 1211**Dioryctria abietella**

- biological control, *Bacillus thuringiensis* 2362

- parasitoids, Ichneumonidae 292

- Picea smithiana*, India 292

Dioryctria horneana, pathogens, *Beauveria bassiana* 2782**Dipetalogaster maxima**, pathogens,

- Beauveria bassiana* 1041

Diplazon laetatorius, fields, Argentina 1458

- parasitoids, Hymenoptera 1708

Diplolepis fukudae cont.

- Rosa rugosa*, Japan 1708
Diplonychus rusticus, etofenprox, nontarget effects 1095
Diplostichus lophyri, hosts, *Diprion similis*, USA 1673
Diprion jingyuanensis, parasitoids, *Aptesis grandis* 507

Diprion pini

- biological control, Ukraine 948
 parasitoids

- Drino gilva* 1697
Olesicampe macellator 1697

pathogens

- Beauveria bassiana* 1689
Entomophaga 1689
Paecilomyces farinosus 1689
Paecilomyces fumosoroseus 1689
Pinus, Germany 1697
Pinus sylvestris, Poland 1689

Diprion similis

- parasitoids
Diplostichus lophyri, USA 1673
Exenterus mictorius, USA 1673
Monodontomerus dentipes, USA 1673

Diptera

- biological control 2437
 chickpea fields, India 773
 Cucurbitaceae fields, USA 1547
 hosts, *Helicoverpa armigera* 773
 parasites, Laboulbeniales 1022
 parasitoids
Palpomyia slossonae 368
Sphaeromias longipennis 368
 pathogens, *Wolbachia* 2608
 pear orchards, France 171
 predators
Tenodera angustipennis 1436
Tenodera aridifolia 1436

Directories, integrated pest management 1086**Dirhinus anthracis**, hosts, *Exorista bombycis* 2417**Dirhinus himalayanus**

- hosts
Anastrepha suspensa 1161
Musca domestica 1161
 oviposition 1161
 rearing techniques 1161

Dispersal

- Carabidae, oat fields, Norway 1445
 Coleoptera 2019
Coniothyrium minitans 569
 entomopathogens, models 2733
Metarhizium anisopliae, crop fields, Denmark 2154
 natural enemies, *Dendranthema grandiflora* greenhouses 316
Trichogramma chilonis 2688
 cotton fields, China 938-939

Diuraphis noxia

- barley, USA 2148
 biological control
Aphidius colemani, Czech Republic 2139
 Coccinellidae, China 46
Paecilomyces fumosoroseus 1929

parasitoids

- Aphelinus albipodus* 1851, 2148, 2583
Aphelinus asychis 1851, 2148
Aphelinus varipes 1851
Diaeretiella rapae 725, 1975, 2148
 Hymenoptera 740

predators

- Chrysoperla carnea* 60
Propylea quatuordecimpunctata 63
 wheat
 China 46
 Czech Republic 2139

Diuron, nontarget effects, Araneae 1574**Diversity**, parasitoids, orchards, Mexico 1615**Dociostaurus maroccanus**, predators, poultry 1364**Dolichogenidea**, hosts, *Galleria mellonella* 667**Dolichogenidea tasmanica**

- hosts, Tortricidae 846
 temperate fruit orchards, New Zealand 846

- Dolichomitrus terebrans nubilipennis**, hosts, *Pissodes terminalis* 300
- Donacia cincticornis**, aquatic plants, biological control, USA 437
- Doru luteipes**
environmental factors 1919
prey, *Helicoverpa zea* 1919
- Doryctobracon areolatus**
diversity, orchards, Mexico 1615
forests, Mexico 953
guava orchards, Costa Rica 901
hosts
 Anastrepha 953
 Anastrepha alveata 1615
 Anastrepha bahiensis 1615
 Anastrepha fraterculus 1615
 Anastrepha ludens 1615
 Anastrepha obliqua 1615
 Anastrepha striata 901, 1615
 Anastrepha suspensa 2275
 Tephritidae 891
- Doryctobracon crawfordi**
diversity, orchards, Mexico 1615
forests, Mexico 953
hosts
 Anastrepha 953
 Anastrepha ludens 1615
- Doryctobracon zeteki**, hosts, *Anastrepha* 2276
- Dothiorella gregarius**, antagonists, *Trichoderma koningii* 651
- Drechslera tritici-repentis**
biological control 20
wheat 20
- Drino gilva**
hosts, *Diprion pini* 1697
Pinus forests, Germany 1697
- Drosicha mangiferae**
mangoes 1590
pathogens, *Beauveria bassiana* 1590
- Drosophila**
parasitoids, *Leptopilina boulardi* 581, 1985
predators
 Agelenopsis aperta 1285
 Argiope trifasciata 1285
- Drosophila nigrospiracula**, ectoparasites, *Macrocheles subbadius* 1328
- Drosophila simulans**
parasitoids
 Asobara tabida 2001
 Leptopilina boulardi 2001
- Ducks**
weeds
 biological control 1083
 Japan 2151
- Duddingtonia flagrans**
cattle dung, Denmark 2446
Cooperia onchophora, biological control 2447
Haemonchus contortus, biological control, Mexico 1049
Nematoda, biological control 1051
Oesophagostomum dentatum, biological control 1048
Ostertagia ostertagi
 biological control 2446
 Denmark 2450
Trichostrongylus colubriformis, biological control, Australia 377-378
- Dufouriellus ater**
oviposition 2367
prey, *Matsucoccus feytaudi* 2367
- Durikainema**, hosts, *Trichosurus vulpecula* 1729
- Dwellings, Aedes aegypti**, Malaysia 1743
- Dyes**
effects, fungi 1353
microbial pesticides, interactions 1354
toxicity, entomogenous fungi 2773
- Dysaphis plantaginea**
biological control, *Adalia bipunctata*, Switzerland 1580
parasitoids, *Diaeretiella rapae* 1975
- Dysdercus cingulatus**
biological control
 Rhynocoris marginatus 1660
 South East Asia 700
 pathogens, *Rhizopus oryzae* 2329
- Dysmicoccus brevipes**
biological control, South East Asia 700
Pheidole megacephala, interactions 1616
pineapples, USA 1616
- Dysmicoccus neobrevipes**
Pheidole megacephala, interactions 902
pineapples, USA 902
- Earias**, parasitoids, *Trichogramma chilonis* 2337
- Earias insulana**, parasitoids, *Trichogramma principium* 1963
- Earias vittella**
pathogens, *Bacillus thuringiensis* 2667
predators
 Acanthaspis pedestris 2603
 Acanthaspis siva 1926
- Earinus zeirapherae**
hosts, *Zeiraphera canadensis* 2371
Picea glauca forests, Canada 2371
- East Africa**
Beauveria, application, coffee plantations 1644
Hypothenemus hampei, biological control, *Beauveria* 1644
Orius 1407
- Eccritotarsus catarinensis**
food plants
 Eichhornia crassipes 1081-1082
 Monochoria australasica 1081
 Monochoria cyanea 1081
 Monochoria vaginalis 1081
 Pontederia cordata 1081
- Ecdytolopha aurantianum**, biological control, *Trichogramma pretiosum* 896
- Echinochloa crus-galli**
biological control
 Exserohilum monoceras, China 2121
 fungi 431
 pathogens 2487
- Echinochloa oryzoides**, biological control, *Exserohilum monoceras* 1789
- Echinostoma revolutum**, antagonism, *Fasciola gigantica* 1784
- Ecology** Papers on specific aspects of ecology, such as population dynamics, life tables, habitats etc. are indexed separately under these headings.
 parasitoids, research 2734
- Ectaga garcia**, life cycle, *Lantana* 1804
- Edovum putterli**
foraging 2026
hosts, *Leptinotarsa decemlineata* 497
rearing techniques 497, 1881
- Egg production**, *Trichogramma principium* 1207
- Egypt**
Aleyrodidae, parasitoids 1183
Aphelinidae, pomegranate orchards 214
Aphytis, date orchards 859
Bemisia tabaci
 biological control
 Encarsia formosa 1411
 natural enemies 1534
 Culicidae, predators 1738
 Encarsia formosa, fields 1411
 Fusarium oxysporum f.sp. *lycopersici*, biological control, *Bacillus subtilis* 2207
 natural enemies, wheat fields 1456
Orius
 fields 2110
 weeds 2110
Orobancha crenata, biological control, *Phytomyza orobanchia* 2479
Ostrinia nubilalis, cereals 1444
Phytoseiidae, apple orchards 1578
predators, cotton fields 1657
predatory arthropods, cotton fields 1658
Pythium carolinianum, biological control, *Pseudomonas fluorescens* 935
Siphoninus phillyreae, biological control, Aphelinidae 214
Spodoptera littoralis, biological control, *Bacillus thuringiensis* subsp. *kurstaki* 2153
- Egypt cont.**
 vegetable pests, biological control, beneficial insects 2199
 Zeuzera pyrina, biological control, entomophilic nematodes 1393
- Eichhornia crassipes**
biological control 2509
 Neochetina, USA 2503, 2505
 USA 424
 integrated control, USA 2505
 natural enemies, *Eccritotarsus catarinensis* 1081-1082
- Elachertus cacoeciae**, hosts, *Choristoneura fumiferana* 297
- Elasmidae**, hosts, *Phyllocnistis citrella* 506
- Elasmus**
 Citrus aurantiifolia orchards, Mexico 206
 Citrus orchards, Brazil 1614
 hosts, *Phyllocnistis citrella* 206
- Elasmus johnstoni**
 hosts, *Cnaphalocrocis medinalis* 748
 rice fields, India 748
- Elatophilus nigricornis**
oviposition 2367
prey, *Matsucoccus feytaudi* 2367
- Elatophilus pini**
oviposition 2367
prey, *Matsucoccus feytaudi* 2367
- Electrophoresis**
Beauveria bassiana, strains 1850
Trichoderma 2756
- Eleocharis kuroguwai**
biological control
 Epicoccossorus nematosporus 1811
 Nimbya scirpicola 1057
- Elettaria cardamomum**, *Penialonia nigronervosa* 1713
- Elettaria cardamomum orchards**, *Chrysoperla carnea* 1713
- Eleusine coracana**, *Aphis gossypii*, biological control 135
- ELISA**
 analysis, prey 1138
 Hymenoptera, detection 483
- Elytorgia repens**, grasslands, Germany 2160
- Emamectin benzoate**, nontarget effects, *Catolaccus grandis* 2537
- Embellisia chlamydospora**
free living nematodes, biological control 685
 Heterodera schachtii, biological control 244
 hosts, *Heterodera schachtii* 244
- Embryonic development**, *Chrysopa pallens* 1253
- Emergence**, *Catolaccus grandis* 1263
- Emex**, biological control, *Brachycaudus rumexicols* 1075
- Emex australis**, biological control, *Brachycaudus rumexicols*, Australia 1073
- Empididae**, pear orchards, France 2056
- Empoasca fabae**
parasitoids, Hymenoptera 2193
potatoes, USA 2193
predators
 Chrysopidae 2193
 Coccinellidae 2193
 Miridae 2193
- Empoasca kerri**
biological control, predatory insects, India 229
sunflowers, India 229
- Encarsia**
 China 1182
 chromosome number 2715
 cotton fields, Australia 937
 hosts
 Aleurodicus dispersus 2345
 Bemisia tabaci 937
 revisions 1182
- Encarsia aleurothrix**
 hosts, *Aleurothrixus aepim* 1894
 new species 1894
- Encarsia asterobemisiae**, chromosome number 2715
- Encarsia bellottii**
 hosts
 Aleurotrachelus socialis 84
 Trialeurodes variabilis 84
- Encarsia berlesii**
 hosts, Coccoidea 883

Encarsia berlesei cont.

Pseudaulacaspis pentagona, biological control 176

Turkey 883

Encarsia citrina

hosts, *Aonidiella orientalis* 200

oils, nontarget effects 213

Encarsia davidi

hosts, *Bemisia tabaci* 665

pomegranate orchards, Egypt 214

Siphoninus phyllireae, biological control, Egypt 214

Encarsia diaspidicola

hosts, *Pseudaulacaspis pentagona* 2680

Unaspis euonymi, biological control, USA 312

Encarsia formosa

Aleyrodidae

biological control 7

Belgium 1537

Bemisia tabaci, biological control, Egypt

1411, 1534

cold storage, effects 2554

fields, Egypt 1411

greenhouses 1536

host-seeking behaviour 2690

hosts

Aleyrodidae 2679

Bemisia 1986

Bemisia tabaci 2554

Trialeurodes vaporariorum 2690

insecticides, toxicity 1118

pyriproxyfen, toxicity 451

rose greenhouses, Germany 1705

tomato greenhouses, Belgium 1537

Trialeurodes vaporariorum

biological control 1536

Belgium 177

Germany 1705

Switzerland 140

Encarsia galilea

pomegranate orchards, Egypt 214

Siphoninus phyllireae, biological control, Egypt 214

Encarsia haitiensis, hosts, *Aleurodicus dispersus* 2109**Encarsia hamoni**

hosts

Bemisia tabaci 1894

Tetraleurodes aursorum 1894

new species 1894

Encarsia hansonii, new species 1894**Encarsia hispida**

hosts

Aleyrodidae 2679

Bemisia 1322

Encarsia inaron

hosts

Bemisia tabaci 665

Trialeurodes vaporariorum 701

pomegranate orchards, Egypt 214

Siphoninus phyllireae, biological control, Egypt 214

Encarsia lanceolata, hosts, *Trialeurodes pergandeii* 2107**Encarsia lutea**

hosts, *Bemisia tabaci* 607, 665

pomegranate orchards, Egypt 214

searching behaviour 607

Siphoninus phyllireae, biological control, Egypt 214

Encarsia meritoria

hosts

Aleurodicus dispersus 2776

Bemisia 1322

Encarsia mineoi, hosts, *Bemisia tabaci* 665**Encarsia nigricephala**

hosts

Bemisia 1322

Bemisia argentifolii 83

Bemisia tabaci 75

sweet potato fields, USA 83

Encarsia pergandiella

development 2631

hosts

Aleyrodidae 2679

Bemisia 1322

Bemisia argentifolii 83, 2338, 2631

Bemisia tabaci 75

Trialeurodes vaporariorum 2338

sweet potato fields, USA 83

Encarsia protransvena, chromosome number

2715

Encarsia quaintancei

hosts, *Bemisia argentifolii* 83

sweet potato fields, USA 83

Encarsia smithi, *Aleurocanthus spiniferus*,

biological control, South Africa 1605

Encarsia strenua

hosts, *Bemisia argentifolii* 83

sweet potato fields, USA 83

Encarsia transvena

hosts

Encarsia transvena 1927

Eremocerus eremicus 1927

ovipositor 1969

parasitoids, *Encarsia transvena* 1927

Encyrtidae

Buchloe dactyloides habitats, USA 982

hosts

Leptoglossus phyllopus 2113

Phyllocnistis citrella 506

Encyrtus, fields, Argentina 1458**Encyrtus lecaniorum**, hosts, *Coccus viridis*

1607

Endochus inornatus, prey, *Stephanitis*

typicus 1622

Endophyllum osteospermi

Chrysanthemoides monilifera

biological control

Australia 392

South Africa 392

new combination 392

Endophytes, plant pathogens, biological

control 2070

Endosulfan

compatibility, *Bacillus thuringiensis* 1842

nontarget effects

Anthonomus grandis 1845

Beauveria brongniartii 1115

beneficial arthropods 942

Catolaccus grandis 2537

predatory mites 1826

Rhynocoris 452

Rhynocoris kumarii 2529

Trichogramma pretiosum 459

toxicity

beneficial insects 457

Chelonus blackburni 1107

Coccinellidae 1111

Metarhizium anisopliae 458

predatory arthropods 465

predatory insects 461, 1123

Rhynocoris fuscipes 464

Trichogramma chilonis 2522

Ensina sonchi, parasitoids, *Tetrastichus giffardianus* 543**Enterobacter**, *Bacillus thuringiensis*, interactions 1955**Enterobacter cloacae**

antagonism, *Fusarium* 2198

Pasteuria penetrans, interactions 2229

Entomogenous fungi

arthropods, interactions 673

Frankliniella occidentalis, biological control 2105

fungicides, nontarget effects 2519

hosts

Delia floralis 2765

Galleria mellonella 2765

mass production 1160

plant pests, biological control, reviews

2102

Scarabaeidae, biological control, Poland

1403

Sitona lineatus, biological control, Poland

2169

South Africa 673

spatial distribution, fields, UK 2519

Entomopathogenic bacteria, Scarabaeidae,

biological control, Poland 1403

Entomopathogens

dispersal, models 2733

forest pests, biological control, North

America, reviews 1665

plant pests, biological control, reviews

715

Entomophaga, hosts, *Diprion pini* 1689**Entomophaga aulicae**

hosts

Lambdina fiscellaria 632

Lymantria dispar 632

Entomophaga aulicae cont.

hosts cont.

Nephotettix virescens 2134

Entomophaga mainaiga

hosts

Lambdina fiscellaria 632

Lymantria dispar 290, 632, 963, 969,

2051, 2356, 2359

Lymantria dispar

biological control

North America, reviews 1663

USA 1360

persistence 290

Entomophilic nematodes

Formicidae, interactions 1331

formulations 2561

heat tolerance 2719

hosts, Lepidoptera 55

insect pests, biological control, reviews

690

Japan 2389

Korea Republic 2786

Lycoriella auripila, biological control,

UK 2396

natural enemies, reviews 2647

Otiorynchus sulcatus, biological control

2243

searching behaviour 2243

Sitona lineatus, biological control, Poland

2169

Spodoptera frugiperda, biological control

2777

usage 2787

Entomophthora, hosts, *Macrosiphum rosae*

309

Entomophthora muscae, hosts, *Musca*

domestica 1020

Entomophthorales, phylogeny 1175**Entomophthora muscae**, fields, Argentina

1458

Entomopoxvirus

Ascogaster reticulatus, interactions 638

Brachymeria lasus, interactions 1933

genomes 2714

hosts

Adoxophyes 638

Melanoplus sanguinipes 2714

Mythimna separata 1217

Schistocerca gregaria 669

Environmental factors

Anisopteromalus calandrae 1962

Lariophagus distinguendus 1958

Orius 522

Pandora neophidius 1991

Phytoseiidae 1200

predatory insects 1919

Steinernema feltiae 2744

Sympiesis sericeicornis 580

Trichogramma pretiosum 1222, 1919

Enzyme immunoassay, *Euzophera pinguis*,

detection 2544

Enzymes

Bacillus thuringiensis 616

entomogenous fungi 2038

Eotetranychus kankitus, predators,

Amblyseius nicholsi 1192

Eotetranychus willamettei

Acari, biological control, USA 1564

vineyards, USA 1564

Ephedrus californicus, hosts, *Acyrtosiphon*

pisum 2657

Ephedrus plagiator

hosts

Aphidoidea 222

Myzus persicae 1509

kohlrabi fields, India 1509

population dynamics 1509

Ephestia kuehniella

biological control

Blattisotocys tarsalis, Scandinavia

1723

natural enemies, Denmark 2408

Trichogramma evanescens, Germany

2409

cereal grains, Germany 2409

flours, Denmark 2408

parasitoids

Anisopteromalus calandrae 1726

Bracon brevicornis 1726

Bracon hebetor 1246

Cop

- Ephestia kuehniella* cont.
parasitoids cont.
Venturia canescens 1310-1311, 1726, 1971
pathogens, *Bacillus thuringiensis* subsp. *aizawai* 552
predators
Blattisocius tarsalis 1935
Orius minutus 551
Orius sauteri 551
Orius tantillus 1876
wheat flour, Scandinavia 1723
Epiblema strenuana, food plants,
Parthenium hysterophorus 419
Epicampocera succincta
Brassicaceae habitats, Japan 2610
hosts
Pieris melete 2610
Pieris napi 2610
Pieris rapae 2610
Epicoccossorus nematosporus, *Eleocharis kuroguwai*, biological control 1811
Epicoccum nigrum, antagonism, *Gaeumannomyces graminis* var. *tritici* 727
Epilachna similis
parasitoids, Hymenoptera 752
wheat, Ethiopia 752
Epilachna vigintioctopunctata
aubergines 2216
India 1535
biological control, entomopathogens 2216
food plants, *Solanum carolinense* 1068
parasitoids
Omphale epilachni 509
Pediobius foveolatus 668, 1131, 1535
Epiphyas postvittana
apples
Australia 867
New Zealand 845
biological control, parasitoids, New Zealand 845
Epiricania melanoleuca
hosts, *Pyrrilla perpusilla* 929
parasitoids, *Ooencyrtus* 929
Pyrrilla perpusilla, biological control, India 243
sugarcane fields, India 929
Epirrita autumnata
Betula pubescens ssp. *czerepanovii*, Finland 2358
forest trees, Finland 1666
parasitoids 1666
Cotesia jucunda 2358
Eulophus larvarum 2358
predators, small mammals, Finland 2055
Epistrophe eligans, prey, Aphidoidea 502
Episyrrhus balteatus
insecticides, toxicity 444, 1117
kohlrabi fields, India 1509
mandarin orchards, India 1596
oviposition 1992
pirimicarb, toxicity 1116
population dynamics 1509, 1596
prey
Aphidoidea 502
Aphis fabae 1992
Aphis sambuci 1992
Homoptera 1596
Myzus persicae 1509
rearing techniques 1166
Epirranus erythrogaster, hosts, *Galleria mellonella* 667
Erannis bajoria, pathogens, *Beauveria bassiana* 683
Erencyrtus dewitzi
Annona squamosa orchards, India 878
hosts, *Kerria communis* 878
Eretmocerus
Beauveria bassiana, nontarget effects 1101
cotton fields, Australia 937
hosts
Bemisia 1322
Bemisia argentifolii 83
Bemisia tabaci 937
Dialeurolonga communis 1603
sweet potato fields, USA 83
Eretmocerus californicus, *Bemisia tabaci*, biological control, Egypt 1534
Eretmocerus corni
hosts, *Bemisia tabaci* 665
Eretmocerus corni cont.
pomegranate orchards, Egypt 214
Siphoninus phillyreae, biological control, Egypt 214
Eretmocerus debachi
hosts, *Parabemisia myricae* 1610
orchards, Turkey 1610
Eretmocerus diversiciolatus
hosts, *Bemisia tabaci* 665
pomegranate orchards, Egypt 214
Siphoninus phillyreae, biological control, Egypt 214
Eretmocerus eremicus
Aleyrodidae, biological control, Belgium 1537
cotton fields, USA 271
hosts, *Bemisia argentifolii* 271, 1545, 2586
life tables 2586
parasitoids, *Encarsia transvena* 1927
spatial distribution 1545
tomato greenhouses, Belgium 1537
Eretmocerus mundus
Bemisia tabaci, biological control, Egypt 1534
hosts
Bemisia argentifolii 1915, 2338
Bemisia tabaci 607, 665
Trialeurodes vaporariorum 2338
ovipositor 1969
pomegranate orchards, Egypt 214
searching behaviour 607
Siphoninus phillyreae, biological control, Egypt 214
vegetable pests, biological control, Egypt 2199
Eretmocerus orientalis
hosts, *Bemisia argentifolii* 1830
insecticides, toxicity 1830
Ericerus pela, parasitoids, *Metaphycus ericeri* 2591
Eriocrania cicatricella
Betula, Central Europe 2347
parasitoids, *Grypocentrus* 2347
Eriocrania sangii
Betula, Central Europe 2347
parasitoids, *Grypocentrus* 2347
Eriocrania semipurpurella
Betula, Central Europe 2347
parasitoids, *Grypocentrus* 2347
Eriocrania unimaculella
Betula, Central Europe 2347
parasitoids, *Grypocentrus* 2347
Erionota thrax, biological control, South Pacific 10
Eriophyidae
predators
Amblyseius fallacis 547
Neoseiulus fallacis 2633
Eriopsis connexa
prey
Acyrtosiphon kondoi 2156
Acyrtosiphon pisum 2156
Aphis craccivora 2156
Therioaphis brachytricha 2156
Eriosoma lanigerum
apples, Australia 864, 867
parasitoids, *Aphelinus mali* 864, 867
pathogens, *Verticillium lecanii* 864
predators
Chrysopidae 864
Coccinellidae 864
Syrphidae 864
Erixestus zygommae, hosts, *Zygogramma bicolorata* 388
Eruca vesicaria, Lepidoptera, Italy 799
Erwinia, antagonism, *Botrytis cinerea* 996
Erwinia amylovora
antagonists
Erwinia herbicola 164, 190
Pseudomonas fluorescens 190
pears 164
USA 190
Erwinia ananas, antagonism, *Fagopyrum esculentum* 21
Erwinia carotovora
antagonists 783
Pseudomonas 842
potatoes 783
Erwinia carotovora subsp. *carotovora*
biological control, *Pseudomonas fluorescens* 113
melons 113
Erwinia herbicola
antagonism, *Erwinia amylovora* 164, 190
Xanthomonas vesicatoria, biological control, North America 1512
Erynia anhuensis, hosts, *Myzus persicae* 640, 1984
Erynia aphidis
hosts
Brevicoryne brassicae 227
Lipaphis erysimi 227
Myzus persicae 227
Erynia delphacis
fungicides, nontarget effects 1823
hosts
Laodelphax striatellus 1359
Nephotettix cincticeps 1359
Nilaparvata lugens 1359
Sogatella furcifera 1359
Japan 1359
Erynia neoaphidis
formulations 501, 1858
hosts
Acyrtosiphon pisum 501, 1858
Aphis gossypii 940
Sitobion avenae 1315, 2585
sporulation 2585
Erynia radicans
hosts
Cnaphalocrocis medinalis 1430
Myzus persicae 1941
Nephotettix virescens 2134
Plutella xylostella 2044
relative humidity 1965
Erysiphe, host plants 1510
Erysiphe artemisiae, antagonists, *Ampelomyces quisqualis* 1510
Erysiphe cichoracearum, antagonists, *Ampelomyces quisqualis* 1510
Erysiphe cynoglossi, *Cynoglossum officinale*, biological control, Canada 2464
Erysiphe graminis
antagonists
Chaetomium funicola 1426
Chaetomium globosum 1426
barley 1426
Erythraeidae, hosts, *Aphis fabae* 1063
Erythroxylum coca, biological control, *Fusarium oxysporum*, USA 391, 2483
Escherichia coli, hosts, *Curculio nucum* 1617
Esfenvalerate
nontarget effects
Anagrus 1843
predatory mites 1826
Trichomalus perfectus 2295
Typhlodromus occidentalis 1106
Typhlodromus pyri 1136
toxicity
Adalia bipunctata 1829
Episyrrhus balteatus 1117
Esteya vermicola
hosts, *Bursaphelenchus xylophilus* 2568
new species 2568
Estigmene acrea, predators, *Podalonia valida* 2025
Estonia, *Heterorhabditis*, geographical distribution 2752
Eteobalea serrata, *Linaria vulgaris*, biological control, USA 2402
Ethion
compatibility, *Bacillus thuringiensis* 1842
toxicity, *Agriaspis citricola* 1608
Etofenprox, nontarget effects, *Diplonychus rusticus* 1095
Eulemma amabilis
Annona squamosa orchards, India 878
ultraviolet radiation, effects 346
Eucallipterus tiliae, predators, *Adalia bipunctata* 676
Eucalyptus
Cenarytaina eucalypti, Irish Republic 990
Scarabaeidae, Australia 1676
Eucraphis betulae, predators, *Adalia bipunctata* 676

- Eucercoris suspectus**, *Melaleuca quinquenervia*, biological control, Australia 2470
- Eucolilidae**
hosts
Musca domestica 1759
Physiphora aenea 1759
Sarcophaga 1759
Stomoxys calcitrans 1759
- Eudocima fullonia**, biological control, South Pacific 10
- Eugamasus butleri**, new geographic records, *Morchella* habitats, Turkey 1714
- Eugenia uniflora**, Tephritidae, Brazil 891
- Eulophidae**
apple orchards, Switzerland 178
Citrus orchards, USA 2283
hosts
Adoxophyes orana 178
Cotesia glomerata 1186
Cydia pomonella 178
Phyllocnistis citrella 506
- Eulophus larvarum**, hosts, *Epirrita autumnata* 2358
- Eulophus pennicornis**
hosts, *Lacanobia oleracea* 2723
secretions 2723
- Eumenes**, prey, *Spodoptera litura* 1188
- Euonymus**, *Unaspis eunymyi*, USA 312
- Euonymus japonicus**, *Ceroplastes japonicus*, Italy 966
- Eupelmidae**, hosts, *Phyllocnistis citrella* 506
- Eupelmus**
Citrus orchards, Brazil 1614
hosts, *Trupanea wheeleri* 1967
soyabean fields, Brazil 772
- Eupelmus orientalis**
Callosobruchus maculatus, biological control, West Africa 2411
hosts, *Callosobruchus maculatus* 2581
- Eupelmus vulletii**
Callosobruchus maculatus, biological control, West Africa 2411
hosts
Callosobruchus maculatus 2581
Dinarmus basalis 2581
- Eupeodes**
prey
Brevicoryne brassicae 234
Lipaphis erysimi 234
Myzus persicae 234
rape fields, India 234
- Eupeodes confrater**
cabbage fields, India 804
kohlrabi fields, India 1509
population dynamics 1509
prey
Brevicoryne brassicae 804
Myzus persicae 1509
Pseudoregma bambucicola 993
- Eupeodes corollae**
prey, Aphidoidea 502
wheat fields, Egypt 1456
- Euphasiopteryx ochracea**, hosts, *Acheta domesticus* 1307
- Euphorbia**, biological control, *Fusarium* 2465
- Euphorbia esula**
biological control, *Sciota divisella* 409
models, biological control 2491
natural enemies, *Liriomyza euphorbiae* 1797
- Euphorbia heterophylla**, biological control, fungi 398
- Euphorbia hirta**, biological control, fungi 398
- Euphorbia kotschiana**, natural enemies, *Liriomyza euphorbiae* 1797
- Euphorbia pulcherrima**, biological control, *Bemisia argentifolii* 989
- Euplectrus comstockii**
hosts, *Ostrinia nubilalis* 628
proteins 628
- Euplectrus mellipes**
habitats, maize fields, USA 1452
hosts, *Mythimna unipuncta* 1452
- Eupoecilia ambigua**, biological control, *Bacillus thuringiensis* 182
- Euproctis lunata**, parasitoids, *Trichogramma exiguum* 570
- Eupsenella**, Tortricidae, biological control, New Zealand 1417
- Eurhizococcus brasiliensis**, predators, *Prolepis lucifer* 1181
- Eurithia consobrina**
hosts, *Mamestra configurata* 1868, 1887
keys 1887
rearing techniques 1868
- Europe**
biological control, arthropod pests, pome fruits 2252
Ceutorhynchus assimilis, parasitoids 1623
greenhouse crops, integrated control 832
Heterobasidion annosum, biological control 696
integrated pest management, reviews 1087
Lycosidae 1886
Lythrum salicaria, biological control 2484
rape pests, natural enemies 1625
- Eurosta solidaginis**
oviposition 2477
Solidago altissima, galls 2477
- Eurygaster integriceps**
parasitoids, *Telenomus* 43, 51
wheat, Russia 43
- Euryishia**, hosts, *Planococcus citri* 209
- Eurytoma**
hosts
Pelopidas mathias 42
Trupanea wheeleri 1967
- Eurytoma amygdali**
almonds, Hungary 906
ectoparasites, *Pyemotes* 906
- Eurytoma obtusiventris**, hosts, *Trupanea wheeleri* 1967
- Eurytoma vernonia**, hosts, *Trupanea wheeleri* 1967
- Eurytoma verticillata**
fields, China 100
hosts, *Plutella xylostella* 100
- Eurytomidae**, maize grain, USA 340
- Euschistus heros**
food plants, Brazil 1486
parasitoids
Hyalomyodes 1486
Telenomus podisi 1205
Trichopoda giacomellii 1486
Trissolcus tereitis 772
- Euseius alatus**, apple orchards, Brazil 853
- Euseius brazili**, apple orchards, Brazil 853
- Euseius finlandicus** (see *Seiulus finlandicus*)
- Euseius hibisci**
behaviour 2022
cannibalism 2691
feeding behaviour 2697
- Euseius scutalis**, Lebanon 2747
- Euseius stipulatus**, temperate fruit orchards, Spain 861
- Euseius tularensis**, prey, *Scirtothrips citri* 892
- Eustala**, predators, *Trypoxylon politum* 2780
- Eutinobothrus**, weeds, biological control 1078
- Eutinobothrus pilosellus**, weeds, biological control 1078
- Eutreta xanthochaeta**, parasitoids, *Diachasmimorpha tryoni* 2698
- Euxanthellus philippiae**
hosts
Ceroplastes destructor 886
Ceroplastes sinensis 886
Cribrolecanium andersoni 1604
- Euzophera pinguis**, enzyme immunoassay, detection 2544
- Evolution**, parasitoids 2737
- Exapion fuscicostre**, *Cytisus scoparius*, biological control 2485
- Exenterus mictorius**, hosts, *Diprion similis*, USA 1673
- Exochomus**, ultrastructure 1970
- Exochomus mongol**, prey, *Matsucoccus matsumurae* 671
- Exochomus nigromaculatus**, *Diuraphis noxia*, biological control, China 46
- Exorista bombycis**
gamma radiation, effects 1002
hosts
Antheraea proylei 348
Bombyx mori 1002
- Exorista bombycis cont.**
parasitoids
Brachymeria alternipes 348
Brachymeria lugibris 348
Dirhinus anthracia 2417
Exoristobia philippinensis 2416
Nesolynx dipterae 1187
Pachycrepoideus veerannai 2417
Spalangia endius 2416
Trichopria 2416
- Exorista japonica**
host selection 2004
hosts, *Hyphantria cunea* 1094
insecticides, toxicity 1094
- Exorista larvarum**
hosts, *Galleria mellonella* 1171
rearing techniques 1171
- Exorista mella**
hosts, *Mamestra configurata* 1887
keys 1887
- Exorista xanthaspis**
hosts, *Mythimna separata* 1378
India 1378
- Exoristobia philippinensis**, hosts, *Exorista bombycis* 2416
- Exserohilum monoceras**
Echinochloa crus-galli, biological control, China 2121
Echinochloa oryzoides, biological control 1789
- Faba bean extracts**, attractants, *Aphidius ervi* 73
- Faba bean fields**, Hymenoptera, UK 782
- Faba beans**
Acyrtosiphon pisum 71
UK 782
Sitona lineatus 2170
- Fagopyrum esculentum**
antagonists
Erwinia ananas 21
Pseudomonas syringae 21
- Falconia intermedia**, *Lantana camara*, biological control 1064
- Fannia armata**, pathogens, *Strongwellsea magna* 2433
- Fannia canicularis**, biological control, *Muscidifurax* 1023
- Fannia glaucescens**, pathogens, *Strongwellsea magna* 2433
- Fannia scalaris**, pathogens, *Strongwellsea magna* 2433
- Fasciola gigantica**, antagonists, *Echinostoma revolutum* 1784
- Fasciola hepatica**, biological control, UK 2452
- Feeding**, *Lema scutellaris* 1074
- Feeding behaviour**
Araneae 1285
Argiope keyserlingi 1265
Argiope trifasciata 1990
Bathyplectes curculionis 1989
Brachymeria intermedia 584
Clarkus elongatus 2706
Coccinella septempunctata 600
Coccinella transversoguttata 2008
Coleomegilla maculata 1441
Delphastus pusillus 2677
Hippodamia convergens 2008
Lycosa carolinensis 1997
parasitoids 583
Phytoseidae 2023
Phytoseiidae 2697
Pimpla luctosa 2666
Typhlodromus kerkira 1489
Venturia canescens, models 2699
Zelus renardii 270
Zygogramma bicolorata 417
- Feltiella acarisuga**
Tetranychus urticae
biological control 186
Belgium 177
- Fenazaquin**, nontarget effects, *Amblyseius andersoni* 870
- Fenbutatin oxide**
nontarget effects
Amblyseius andersoni 870
beneficial insects 207
- Fenitrothion**
nontarget effects, beneficial arthropods 1847
toxicity, *Exorista japonica* 1094

- Fenoxycarb**
nontarget effects
beneficial arthropods 867, 1091, 2520
Chrysoperla carnea 1836
Micromus tasmaniae 448
Opius concolor 1122
toxicity, *Ageniaspis citricola* 1608
- Fenpropathrin**
nontarget effects, beneficial insects 1838
toxicity, *Adalia bipunctata* 1829
- Fenpropimorph**, toxicity, beneficial arthropods 444
- Fenpyroximate**
nontarget effects
Amblyseius andersoni 870
Neoseiulus californicus 2247
- Fenusa**, biological control, *Steinernema carpocapsae* 684
- Fenvalerate**
toxicity
Chelonus blackburni 1107
Cotesia glomerata 1130
Cryptolaemus montrouzieri 1090
Diadromus collaris 1112
Exorista japonica 1094
Oomyzus sokolowskii 450
Pediobius foveolatus 1131
- Ferrisia virgata**, predators, *Brumoides suturalis* 1944
- Festuca arundinacea**, *Rhizoctonia solani*, USA 59
- Ficedula hypoleuca**, prey, forest pests 1668
- Field crops**
Aphididae, Switzerland 2111
integrated pest management 1412
Tetranychus urticae, Egypt 2119
- Fields**
Hymenoptera
China 100
UK 1318
USA 6
Orius, Egypt 2110
Phradis interstitialis, Germany 2297
Phradis morionellus, Germany 2297
Pterostichus cupreus, Sweden 456
Staphylinidae, Germany 2739
Syrphidae, Switzerland 2111
Tersilochus heterocerus, Germany 2297
- Fiji**, Nematoda, biological control 1029, 1052
- Filter beds**, Diptera, UK 1763
- Finland**
Araneae, cereal fields 744
Cotesia melitaearum 1287
Epirrita autumnata, forest trees 1666
Heterobasidion annosum, biological control, *Phlebia gigantea* 291
small mammals, *Epirrita autumnata* 2055
- Fipronil**
nontarget effects
Anthonomus grandis 1845
beneficial arthropods 942
Catolaccus grandis 2537
Orius insidiosus 2536
toxicity
entomogenous fungi 1105
predatory insects 1123
- Fish diseases**, biological control 384
- Fishes**
Aedes aegypti, biological control, Thailand 357
Parapoynx stagnalis, biological control, Vietnam 734
- Flour mills**, parasitoids, Portugal 1726
- Flours**, *Ephestia kuehniella*, Denmark 2408
- Flucycloxuron**, nontarget effects, beneficial arthropods 857
- Flufenoxuron**
nontarget effects
beneficial arthropods 2277
Coccinellidae 1621
toxicity, *Chrysoperla externa* 1831
- Flusilazole**, toxicity, *Typhlodromus pyri* 179
- Fluvalinate**, toxicity, *Episyrphus balteatus* 1117
- Fopius ceratitivorus**
coffee plantations, Kenya 2316
hosts
Ceratitidis capitata 2316
Ceratitidis rosa 2316
Trirhithrum coffeae 2316
- Fopius ceratitivorus** cont.
new species 2316
- Fopius schlingerii**, new species 2316
- Foraging**
Agrothereutes lanceolatus 2686
Aphytis melinus 1271
Cardiochiles nigriceps, *Physalis angulata* orchards 1602
Dendrocerus carpenteri 2003
Eulophidae 2026
Phytoseiulus persimilis 1273
Polistes chinensis 1267
Schizocosa ocreata 1290
- Foraging behaviour**, *Aleochara bilineata* 2017
- Forest pests**
biological control
entomogenous fungi, reviews 2102
entomopathogens, North America, reviews 1665
USA, reviews 1664
- Forest products**, wood destroying fungi 2403
- Forest trees**
Choristoneura fumiferana, Canada 950
Epirrita autumnata, Finland 1666
Hyllobius abietis, UK 1688
Lymantriidae, China 1662
Malacosoma californicum pluviale, Canada 1671
Neritene radiata, Austria 976
plant pathogenic fungi, Poland 278
- Forests**
Grypocentrus, Central Europe 2347
Hymenoptera, Mexico 953
Pnigalio nemati, Irish Republic 961
Typhlodromus bambusa, Japan 1961
- Forficula**, apple orchards, Australia 864
- Forficula senegalensis**, diets 38
- Forficulidae**
apple orchards, Australia 867
insecticides, nontarget effects 867
maize fields, Spain 2132
pear orchards, France 2056
prey, *Tetranychus urticae* 867
- Formica aerata**, prey, *Anarsia lineatella* 866
- Formica neoclara**, *Cacopsylla pyricola*, biological control, USA 2251
- Formica subrufa**, prey, *Chrysoperla carnea* 232
- Formicidae**
Buchloe dactyloides habitats, USA 982
entomophilic nematodes, interactions 1331
olive orchards, Spain 873
pear orchards, France 2056
Pestalotia, biological control, Costa Rica 1675
prey, *Prays oleae* 873
- Formicomus**, field crop fields, India 780
- Formulations**
Bacillus sphaericus 1012
Bacillus thuringiensis 182
Bacillus thuringiensis subsp. *aizawai* 477, 1349
Bacillus thuringiensis subsp. *israelensis* 1337
Bacillus thuringiensis subsp. *kurstaki* 1928
Baculoviridae 2546
Candida oleophila 1589
entomophilic nematodes 2561
Erynia neoaphidis 501
granulosis viruses 2543
Metarhizium anisopliae 1358, 2602
microbial pesticides 664, 2545
books 1398
nuclear polyhedrosis viruses 473, 2079, 2767
Pseudomonas fluorescens 1425
Trichoderma viride 2540
Verticillium chlamydosporium 499
- Fornicia**
hosts
Aphendala cana 994
Loboschiza koenigiana 994
- France**
Aphis fabae, biological control, *Chrysoperla lucasina* 107
beneficial arthropods, pear orchards 171, 2056
- France** cont.
Cacopsylla pyri
biological control
Anthocoris nemoralis 844
natural enemies 844
Coniatius tamarisci, life cycle 418
cucumbers, integrated control 827
Cydia pomonella, biological control, granulosis viruses 712, 860
Frankliniella occidentalis, integrated control, *Neoseiulus cucumeris* 1546
Heteroptera, hedges 633
Melolontha, biological control, *Beauveria brongniartii* 648
Metcalfa pruinosa, biological control, *Neodryinus typhlocybae* 2082
Panonychus ulmi
biological control
Phytoseiidae 1572, 1584
Typhlodromus pyri 172
Phytoseiidae, apple orchards 1572
Pseudaulacaspis pentagona, peaches 176
Typhlodromus pyri orchards 1568
vineyards 179
Unaspis yanonensis, biological control, *Aphytis yanonensis* 884
Vulpia, biological control 426
- Frankia**, antagonism, plant pathogens 1341
- Frankliniella bispinosa**
biological control, *Orius insidiosus* 826
Capsicum, USA 826
- Frankliniella intonsa**
predators
Orius strigicollis 1402
Orius tantillus 1402
- Frankliniella occidentalis**
biological control
Beauveria bassiana 984
Morocco 709
USA 314, 709
entomogenous fungi 2105
Neoseiulus cucumeris 134, 141
Switzerland 140
Orius insidiosus 826
predatory arthropods 133, 986
reviews 704, 708
Verticillium lecanii 2104
- Capsicum**, USA 826
cotton 1652
cucumbers 133, 141
France 134
Spain 139
food plants, Italy 852
greenhouse crops
Morocco 709
Switzerland 140
USA 709
integrated control
Croatia 1707
Neoseiulus cucumeris, France 1546
ornamental plants 985
USA 314
pathogens, *Neozygites parvispora* 139
predators
Amblyseius degenerans 586
Anthocoris nemorum 985
Chrysoperla 852
Chrysoperla carnea 985
Neoseiulus cucumeris 586, 1406
Orius 852
Orius insidiosus 1432, 2593
Orius laevigatus 586
prey, *Tetranychus pacificus* 1652
roses 986
Croatia 1707
Tetranychus urticae, biological control 257
- Frankliniella tritici**
biological control, *Orius insidiosus* 926
Capsicum, USA 826
- Frankliniella vespiformis**
Japan 564
morphology 564
prey
Bemisia argentifolii 564
Liriomyza trifolii 564
Thrips palmi 564
- Free living nematodes**, biological control, nematophagous fungi 685

Fruits

- Cydia pomonella*, France 860
integrated pest management 1561

Fulvia fulva

- hyperparasites, *Dicyma pulvinata* 122
tomatoes, Argentina 122

Functional responses

- Araneae 48
Cyrtopeltis tenuis 1312
Monomorium pharaonis 2049
Neoseiulus californicus, strawberry fields, Italy 1575
Propylea quatuordecimpunctata, host plants 63

Fungal insecticides, standardization 646**Fungi**

- antagonism, *Botrytis cinerea* 1523
biological control 1716, 2064
Carduus thoermeri, biological control 395
Monochoria vaginalis, biological control 2460

weeds

- biological control 431, 2459
Turkey 2456

Fungicide tolerance

- benomyl, *Beauveria bassiana* 1833
Paecilomyces 1837

Fungicides

- nontarget effects
antagonists 442
Aphidius rhopalosiphii 1841
Erynia delphacis 1823
predatory arthropods 138
Trichogramma cacaeciae 2535
toxicity
parasitoids 1093
Verticillium lecanii 1092

Fusarium

- antagonism
Fusarium 980
Fusarium oxysporum f.sp. *lycopersici* 813
Phytophthora infestans 121, 1525
Sclerotinia sclerotiorum 1344
antagonists
Actinomyces 2314
Actinomycetales 120
Azospirillum 109
Bacillus subtilis 109
bacteria 1519
Corynebacterium glutamicum 109
Enterobacter cloacae 2198
Fusarium 980
Pseudomonas 109, 120
Pythium oligandrum 806
Trichoderma 120
Trichoderma harzianum 806, 814

bananas

- biological control
antagonists 126
Pseudomonas 196
Streptomyces griseoviridis, USA 282
Euphorbia, biological control 2465
free living nematodes, biological control 685

fruit vegetables

- Korea Republic 109
Fusarium, biological control 126
hosts

- Ceroastes destructor* 886
Ceroastes sinensis 886
Nephotettix virescens 2134
Oxya nitidula 1431
Pseudotsuga menziesii, USA 282
tomatoes 814

Fusarium chlamydosporum, antagonism, *Puccinia arachidis* 1345**Fusarium culmorum**

- antagonists
Gliocladium 18
Pythium acanthophoron 2128
Pythium mycoparasiticum 2128
Pythium oligandrum 2128
Pythium periplocum 2128
barley 2128
Slovakia 1421
biological control, *Trichoderma harzianum*, Slovakia 1421
wheat, Finland 18

Fusarium equiseti, antagonists, *Trichoderma* 1628**Fusarium oxysporum**

- antagonism
Fusarium oxysporum f.sp. *allii* 94
Fusarium oxysporum f.sp. *ciceris* 768
Fusarium oxysporum f.sp. *lycopersici* 1301, 1517

Verticillium dahliae 79**antagonists**

- Alcaligenes faecalis* 654
Bacillus subtilis 1339, 2325
Burkholderia cepacia 1691
Gibberella fujikuroi 33
Paenibacillus polymyxa 1901
Pseudomonas 842, 1495
Pseudomonas chlororaphis 1559, 1691
Pseudomonas fluorescens 1691, 1903, 2325
Trichoderma harzianum 2361
Trichoderma viride 2361

asparagus

- biological control 131
antagonists 2372
Bacillus subtilis 2196-2197
Paecilomyces lilacinus 145, 834
Pseudomonas aeruginosa 834
soil fungi 1700
Trichoderma harzianum 2230

cabbages

- Capsicum annuum* 2230
Erythroxylum coca, biological control, USA 2483

fungicides, nontarget effects 1097

- Fusarium oxysporum* f.sp. *ciceris*, biological control 1476
Fusarium oxysporum f.sp. *dianthi*, biological control 2373

Fusarium oxysporum f.sp. *spinaciae*, biological control 95**Fusarium proliferatum**, biological control, Taiwan 306**host plants** 1700**hosts**

- Meloidogyne incognita* 16
Pentalonia nigronervosa 2397
ornamental plants 2372
Orobancha cumana
biological control 913
Bulgaria 2486

Pinus sylvestris 2361**safety** 2754**strains** 691**Striga hermonthica**, biological control, Nigeria 2512**tomatoes** 131**Fusarium oxysporum** f.sp. *allii*

- Allium chinense*, Japan 94
antagonists
Fusarium oxysporum 94
Gibberella fujikuroi 94

Fusarium oxysporum f.sp. *ciceris*

- antagonists
Bacillus subtilis 768
Fusarium oxysporum 768
Pseudomonas aeruginosa 766
Trichoderma harzianum 768
biological control, fungal antagonists 1476
chickpeas 1476

Fusarium oxysporum f.sp. *cubense*

- bananas 1585
biological control, antagonists 1585

Fusarium oxysporum f.sp. *cumini*

- antagonists
Aspergillus 320
Bifidobacterium 321
Cladosporium 320
Lactobacillus 321
Lactococcus 321
Leuconostoc 321
Streptococcus 321
Trichoderma 320
Ulocladium 320

Cuminum cyminum 320-321**Fusarium oxysporum** f.sp. *dianthi*

- antagonists
Pseudomonas 2066
Trichoderma 2375-2376

Fusarium oxysporum f.sp. *dianthi* cont.

- biological control
Fusarium oxysporum 2373
Trichoderma 2377-2378
carnations
Colombia 2375-2376
Italy 2373

Fusarium oxysporum f.sp. *erythroxylis*, *Erythroxylum coca*, biological control, USA 391**Fusarium oxysporum** f.sp. *lagenariae*

- biological control, *Burkholderia gladioli* 132
Lagenaria siceraria, Japan 132

Fusarium oxysporum f.sp. *lycopersici*

- antagonism, plant pathogenic fungi 127
antagonists
Fusarium 813
Fusarium oxysporum 1301, 1517
Gliocladium virens 2579
Penicillium oxalicum 1518
Pseudomonas fluorescens 1517
rhizobacteria 129
Trichoderma harzianum 443
Trichoderma longibrachiatum 443

biological control

- Bacillus subtilis*, Egypt 2207
Penicillium oxalicum 111
tomatoes 111, 813, 1517, 2207

Fusarium oxysporum f.sp. *melonis*

- biological control, *Aspergillus niger* 114
Erythroxylum coca, biological control, USA 391

melons 114**Fusarium oxysporum** f.sp. *niveum*

- antagonists, *Trichoderma viride* 2212
watermelons, China 2212

Fusarium oxysporum f.sp. *orthoceras*, *Orobancha cumana*, biological control 402**Fusarium oxysporum** f.sp. *radicis-lycopersici*

- biological control
Pseudomonas chlororaphis 128
Trichoderma 110
tomatoes 110, 128

Fusarium oxysporum f.sp. *sesami*

- biological control, *Trichoderma*, India 225
sesame, India 225

Fusarium oxysporum f.sp. *spinaciae*

- biological control, *Fusarium oxysporum* 95
spinach 95

Fusarium oxysporum f.sp. *vasinfectum*

- biological control
Actinomyces 252
Bacillus 252
Trichoderma viride 252

cotton, China 252**Fusarium oxysporum** f.sp. *zingiberi*

- antagonists
Asidia cylindrospora 2391
Gliocladium virens 2391
Trichoderma harzianum 2391
Trichoderma viride 2391

Fusarium pallidoroseum

- antagonists, *Gibberella fujikuroi* 33
Aphis craccivora, biological control, India 2177

weeds, biological control 1056**Fusarium proliferatum**

- biological control, bacteria, Taiwan 306
Lilium, Taiwan 306

Fusarium solani

- antagonists
Arachniotus 2152
Bradyrhizobium 4, 2299
Memnoniella echinata 2299
Paecilomyces lilacinus 2299
Rhizobium 4, 1478
Rhizobium trifolii 2299
Stachybotrys atra 2299
Trichoderma harzianum 3, 812, 840, 2152, 2299

Trichoderma viride 3, 812**biological control**

- Bacillus*, Korea Republic 322
Paecilomyces lilacinus 834
Pseudomonas aeruginosa 834
Pseudomonas fluorescens 2166

- Fusarium solani** *cont.*
crops 3
Panax pseudoginseng 322
Phaseolus vulgaris 1478
vegetables 812
- Fusarium udum**
antagonists
Bacillus subtilis 1184
Trichoderma 1480
biological control, *Bacillus subtilis* 67
pigeon peas 67
- Gaeumannomyces graminis**, biological control, *Bacillus* 729
- Gaeumannomyces graminis var. tritici**
antagonists
Epicoccum nigrum 727
Phialophora 2130
biological control, *Phialophora*, USA 32
wheat, USA 32
- Galendromus occidentalis**, feeding behaviour 2697
- Galeopsis tetrahit**, *Harpalus rufipes* 89
- Galeosomyia**
Citrus aurantiifolia orchards, Mexico 206
hosts, *Phyllocnistis citrella* 206
- Galeosomyia fausta**
Citrus orchards, Brazil 897, 1614
hosts, *Phyllocnistis citrella* 897, 1614
- Galerucella birmanica**, *Trapa*, biological control, Asia 2506
- Galerucella californiensis**, *Lythrum salicaria*, biological control, North America 1813, 2511
- Galerucella lineola**, predators, *Phylloscopus trochilus* 1679
- Galerucella nymphaeae**
aquatic plants, biological control, USA 437
Trapa, biological control, Asia 2506
- Galerucella pusilla**, *Lythrum salicaria*, biological control, North America 1813, 2511
- Galleria mellonella**
biological control
Heterorhabditis 2659
Steinernema carpocapsae, Canada 2260
cranberries, Canada 2260
parasitoids
Apanteles galleriae 667
Aphanogmus 667
Dolichogenidea 667
Epirranus erythrogaster 667
Exorista larvarum 1171
Pimpla luctuosa 2682
Venturia 667
- pathogens
Beauveria bassiana 683, 1238, 1303
entomogenous fungi 2765
granulosis viruses 2203
Heterorhabditis 608, 639, 2745
Heterorhabditis bacteriophora 639, 1946, 2640, 2718
Heterorhabditis megidis 639
Metarhizium anisopliae 1303
nuclear polyhedrosis viruses 2203
Photographus luminescens 639
Steinernema carpocapsae 61, 556, 2640-2641
Steinernema ceratophorum 2641
Steinernema cubanum 2641
Steinernema feltiae 1946, 2640
Steinernema glaseri 609, 2640
Steinernema kraussei 1947
Steinernema rarium 1946
Xenorhabdus bovienii 625
Xenorhabdus nematophilus 625
- Galls**, *Dasineura gleditchiae*, *Gleditsia triacanthos* 313
- Gamma radiation**, effects, *Exorista bombycis* 1002
- Ganaspidium**, hosts, *Liriomyza huidobrensis* 2174
- Ganaspis xanthopoda**, hosts, *Drosophila melanogaster* 2625
- Gardenia jasminoides**, *Meloidogyne* 991
- Garlic**, *Sclerotium cepivorum* 2195
- Gasterosteus aculeatus**, prey, Chironomidae, Sweden 1766
- Gastropacha quercifolia**, parasitoids, *Trichogramma closteriae* 530
- Gelechiidae**, apples, Switzerland 178
- Gene transfer**, *Bacillus* 2028
- Genes**, nuclear polyhedrosis viruses 613
- Genetic diversity**, *Heterorhabditis* 615
- Genetic engineering**
nuclear polyhedrosis viruses, release 1683
Paecilomyces 1837
- Genetic transformation**, *Candida oleophila*, orange orchards 1588
- Genetic variation**
Beauveria bassiana, USA 2034
Compilura concinnata, USA 2033
- Genetics** Papers on specific aspects of genetics, such as genetic engineering, gene expression, population genetics etc. are indexed separately under these headings.
- Genista**, natural enemies, *Uresiphita reversalis* 1067
- Genista monspessulana**, natural enemies, *Aceria genistae* 406
- Genomes**, *Entomopoxvirus* 2714
- Geocoris**
Buchloe dactyloides habitats, USA 982
cotton fields, Spain 944
prey, *Helicoverpa zea* 1483
Tetranychus urticae, biological control 257
- Geocoris punctipes**
insecticides, toxicity 461, 1123, 2538
prey, *Acyrtosiphon pisum* 572
- Geographical distribution**, *Heterorhabditis*, Europe 2752
- Geotrichum citri-aurantii**, antagonists, *Pseudomonas syringae* 191
- Geranium**, *Cacysus marshalli*, Poland 1703
- Gerbera**, *Aleyrodidae* 1709
- Gerbera greenhouses**, *Macrolophus caliginosus* 1709
- Gerbera jamesonii**
Liriomyza trifolii, Croatia 1706
Phytophthora cryptogea 1699
- Germany**
Aedes vexans, biological control, *Bacillus thuringiensis* subsp. *israelensis* 1745
Agriaspis fuscicollis, apple orchards 851
Aphididae, biological control, *Aphidoletes* 1705
Araneae, wheat fields 738
beneficial arthropods, grasslands 2160
biological control agents 2770
fields, Diptera 912
Melolontha, biological control, *Beauveria bronngiartii* 648
natural enemies, rose greenhouses 1705
parasitoids, *Pinus* forests 1697
Phradis interstitialis, fields 2297
Phradis morionellus, fields 2297
predatory arthropods, maize fields 754
predatory mites, vineyards 2256
Staphylinidae, fields 2739
stored products pests, biological control, *Trichogramma evanescens* 2409
Tersilochus heteroceris, fields 2297
Tetranychus, biological control, *Phytoseiulus persimilis* 1705
Theridion impressum, sugarbeet fields 2308
Trialeurodes vaporariorum, biological control, *Encarsia formosa* 1705
- Germination**, *Beauveria bassiana* 1667
- Gibberella avenacea**, *Rubus*, biological control, Canada 399
- Gibberella fujikuroi**
antagonism
Fusarium oxysporum 33
Fusarium oxysporum f.sp. *allii* 94
Fusarium pallidoroseum 33
Gibberella fujikuroi 33
- antagonists
Actinomyces 2314
Burkholderia cepacia 1691
Chaetomium globosum 1423
Gibberella fujikuroi 33
Pseudomonas chlororaphis 1691
Pseudomonas fluorescens 1423, 1691
Trichoderma 992, 1628
Trichoderma harzianum 1423
biological control 31
- Gibberella fujikuroi** *cont.*
biological control *cont.*
antagonists 2120
Piper betle 992
rice 31, 2120
- Gibberella fujikuroi var. subglutinans**, antagonists, *Trichoderma* 1628
- Gibberella pulicaris**
antagonists
Gliocladium catenulatum 815
Trichoderma viride 815
tomatoes, Russia 815
- Gibberella zeae**
antagonism, *Corticium rolfsii* 2124
wheat 2124
- Gitona distigma**, *Moringa oleifera*, India 1819
- Glaucias amyoti**, parasitoids, *Trichopoda giacomelli* 2616
- Gleditsia triacanthos**
Dasineura gleditchiae
galls 313
USA 313
- Gliocladium**
antagonism
Botryodiplodia theobromae 1900
Fusarium culmorum 18
biological control, books 698
molecular biology, books 697
Phoma chrysanthemicola, biological control 2378
- Gliocladium catenulatum**
antagonism
Botrytis cinerea 1551
Gibberella pulicaris 815
Sclerotium cepivorum 1494
biological control, plant pathogenic fungi 2162-2163
- Gliocladium deliquescens**, antagonism, *Tilletia indica* 1424
- Gliocladium fimbriatum**, antagonism, *Botrytis cinerea* 1551
- Gliocladium penicillioideus**, antagonism, *Botrytis cinerea* 1551
- Gliocladium roseum**
antagonism
Botrytis cinerea 1553, 2237
Sclerotinia sclerotiorum 515
Tilletia indica 1424
Verticillium dahliae 79
biological control, plant pathogenic fungi 2162-2163
- Gliocladium virens**
antagonism
Corticium rolfsii 1482, 2579
Fusarium oxysporum f.sp. *lycopersici* 2579
Fusarium oxysporum f.sp. *zingiberi* 2391
Phytophthora colocasiae 1348
Pythium aphanidermatum 2391
Pythium ultimum 1400
Rhizoctonia solani 112, 1400, 2579
Tilletia indica 1424
Urocystis agropyri 23
- antagonists, *Magnaporthe salvinii* 731
Corticium rolfsii, biological control 1477
Fusarium, biological control 126
hosts, *Bactrocer a cucurbitae* 2234
Rhizoctonia solani, biological control 68-69, 307
Sclerotinia sclerotiorum, biological control 286
- Globe artichokes**, *Aphis fabae*, France 107
- Globodera**
nematophagous fungi
Acremonium 2190
Verticillium chlamydosporium 2190
potatoes 2190
- Globodera pallida**
antagonists
Agrobacterium radiobacter 93
Bacillus sphaericus 93
potatoes 93
- Glomerella cingulata**
antagonists
fungi 2263
Micrococcus luteus 1643
Pestalotiopsis neglecta 193
Trichoderma 876
Trichoderma harzianum 881

- Glomerella cingulata** *cont.*
antagonists *cont.*
Trichoderma koningii 881, 1586
Euphorbia hirta, biological control 398
guavas, Egypt 2263
hyperparasitism, *Polystigma rubrum* 839
passion fruits 1586
Rumex crispus, biological control, Korea
Republic 403
tea 1643
- Glomerella tucumanensis**
antagonists
Trichoderma harzianum 925
Trichoderma viride 925
sugarcane 925
- Glomus deserticola**, *Meloidogyne incognita*,
biological control 154
- Glomus fasciculatum**
Meloidogyne incognita, biological control
2115, 2224
plant pathogenic fungi, biological control
2311
- Glomus mosseae**
Meloidogyne incognita, biological control
835
Pseudomonas fluorescens, interactions
1966
- Glossina fuscipes fuscipes**, pathogens,
Metarhizium anisopliae 367
- Glossina longipennis**, pathogens,
Metarhizium anisopliae 367
- Glossina morsitans centralis**
pathogens
Metarhizium anisopliae 1765
tsetse fly virus 1758
- Glossina morsitans morsitans**
pathogens
Metarhizium anisopliae 1765
tsetse fly virus 1758
- Glossina pallidipes**, pathogens, *Metarhizium*
anisopliae 367
- Glycogen**, *Pimpla turionellae* 2725
- Glyphosate**
nontarget effects
Araneae 1574
Neochetina eichhorniae 468
- Glyptapanteles miliaris**
habitats, maize fields, USA 1452
hosts, *Mythimna unipuncta* 1202, 1452,
2652
- Glyptotenipies barbipes**, pathogenicity 1007
- Gnamptopelta obsidianator**, hosts, *Amphion*
floridensis 849
- Gnatocerus maxillosus**, predators, *Teretri-*
osoma nigrescens 2673
- Golf courses**, Scarabaeidae, USA 2159
- Gonatocerus ashmeadi**, hosts, *Homalodisca*
coagulata 662
- Gonatocerus fasciatus**, hosts, *Homalodisca*
coagulata 662
- Gonatopus**, hosts, *Recilia dorsalis* 1895
- Gonatopus euscelidivorus**, new species 1895
- Gonatopus guangxiensis**
hosts, *Nephotettix cincticeps* 1895
new species 1895
- Gonatopus nilaparvatae**, new species 1895
- Goniocetena viminalis**, predators, *Phyllos-*
copus trochilus 1679
- Goniozus**
hosts, *Cnaphalocrocis medinalis* 748
rice fields, India 748
- Goniozus indicus**, oviposition 575
- Goniozus jacintae**, Tortricidae, biological
control, New Zealand 1417
- Goniozus legneri**, hosts, *Amyelois transitella*
2558
- Goniozus nephantidis**
hosts, *Corcyra cephalonica* 2551
rearing techniques 2551
- Goniozus nigrifemur**, hosts, *Tuta absoluta*
1196
- Goryphus**
hosts, *Mythimna separata* 1378
India 1378
- Gossyparia spuria**, parasitoids, *Coccophagus*
gossypariae 1896
- Gossypium armourianum**, beneficial insects,
interactions 1654
- Gossypium harknessii**, beneficial insects,
interactions 1654
- Gossypium raimondii**, beneficial insects,
interactions 1654
- Gracillariidae**, hosts, *Cameraria ohridella*
2597
- Grain**, stored products pests, UK 2407
- Grain stores**, *Bacillus thuringiensis*, Canada
336
- Granulosis viruses**
Ametadoria misella, interspecific compe-
tition 874
Apanteles kariyai, interactions 2613
biological control, insect pests 1369
Chilo infuscatellus, biological control,
India 927
Cydia pomonella, biological control,
France 712, 860
detection 1853
formulations 2543
hosts
Achaea janata 678
Autographa californica 2203
Chilo infuscatellus 2543
Crocidolomia pavonana 2203
Cydia pomonella 183-184, 1853
Galleria mellonella 2203
Harrisina metallica 874
Helicoverpa armigera 1381
Heliothis virescens 2203
Mamestra brassicae 2203
Maruca vitrata 472
Mythimna separata 2613
Phthorimaea operculella 2750
Plutella xylostella 2203
nontarget effects, beneficial arthropods
1091
Phthorimaea operculella, biological con-
trol 334
population genetics 614
vineyards, USA 874
- Grapefruit orchards**, predatory arthropods,
Cuba 1597
- Grapefruits**
Penicillium digitatum 2267
Pinnaspis strachani, Cuba 1597
postharvest decay 1589
- Grapes**
Agrobacterium tumefaciens 161
Amphion floridensis, USA 849
Botrytis cinerea 841, 1551-1552, 2125
Germany 836
Frankliniella occidentalis, Italy 852
integrated control, conferences 694
integrated pest management, USA 1583
Meloidogyne incognita 188
Parabemisia myricae, Turkey 1610
Peribatodes rhomboidaria, Romania 181
plant pathogenic fungi 166
Tetranychus kanzawai, Japan 1573
Tortricidae, Uruguay 869
Ucinula necator, USA 1563
- Grasslands**
Acrididae, USA 1003
Araneae, Turkey 2158
beneficial arthropods, Germany 2160
Schizocosa, USA 1003
Tenodera aridifolia, Japan 1436
- Greece**
Aleurothrixus floccosus, biological con-
trol, *Cales noacki* 1612
Anthocoris nemoralis, pear orchards 1581
beneficial insects, olive orchards 918
- Green gram seeds**, *Callosobruchus macu-*
latus, India 1000
- Greenhouse crops**
Bemisia argentifolii 703
Hemiptera 716
integrated control, Europe 832
plant pathogens 302
- Greenhouse pests**, biological control, Den-
mark 2101
- Greenhouses**
Aphidoletes aphidimyza, Europe 310
Coenosia, Italy 2091
predatory arthropods, rearing techniques
1155
- Ground cover**, beneficial arthropods, France
2056
- Groundnuts**
Aspergillus niger 223, 2300
India 1619
- Groundnuts** *cont.*
beneficial insects, indigenous knowledge
711
Puccinia arachidis 914
- Growth**, entomogenous fungi 1214
- Gryllidae**, predators, *Schizocosa ocreata*
1290
- Gryllus bimaculatus**, pathogens, Iridoviridae
1953
- Gryon atrum**, hosts, *Mozena obtusa* 416
- Gryon carinatifrons**, hosts, *Leptoglossus*
phyllopus 2113
- Gryon japonicum**
hosts, *Riptortus clavatus* 76
Japan 76
- Gryon nigricorne**
hosts
Riptortus clavatus 76
Riptortus linearis 2175
Japan 76
- Gryon pennsylvanicum**, hosts, *Leptoglossus*
phyllopus 2113
- Grypocentrus**
forests, Central Europe 2347
hosts
Eriocrania cicatricella 2347
Eriocrania sangii 2347
Eriocrania semipurpurella 2347
Eriocrania unimaculella 2347
new species 2347
- Guadeloupe**, entomophilic nematodes, soil
1324
- Guatemala**, *Hypothenemus hampei*, inte-
grated control, *Cephalonomia stepha-*
noderis 246
- Guava extracts**, nuclear polyhedrosis
viruses, interactions 2074
- Guava orchards**
Doryctobracon areolatus, Costa Rica 901
parasitoids, diversity, Mexico 1615
- Guavas**
Aleurodicus dispersus, India 2109, 2272
Anastrepha striata, Costa Rica 901
Chloropulvinaria psidii, Bangladesh 1180
Glomerella cingulata, Egypt 2263
Meloidogyne, Taiwan 215
Rastrococcus iceryoides, India 900
Tephritidae, Brazil 891
- Guinea-Bissau**, rodents, integrated control,
cats 1727
- Guptiella indica**
hosts, *Chromatomyia horticola* 504
new species 504
- Gypsonoma aceriana**
biological control, parasitoids, Bulgaria
2352
Populus, Bulgaria 2352
- Gypsophila**
Fusarium oxysporum 2372
Liriomyza trifolii, Croatia 1706
- Gypsophila paniculata**, *Fusarium oxysporum*
1700
- Habitat management**, books 1396
- Habitats**
Araneae 1413
Hymenoptera, maize fields, USA 1452
Sphecidae, USA 2780
- Habrolepis aspidioti**, oils, nontarget effects
213
- Haematobia irritans**
parasitoids
Spalangia cameroni 2445
Spalangia nigroaenea 2445
- Haemonchus contortus**
biological control
Duddingtonia flagrans, Mexico 1049
Mexico 375
nematophagous fungi 2449
- Halticoptera**
hosts, Agromyzidae 2742
insect communities, Argentina 2742
- Halticoptera arduine**, hosts, *Liriomyza*
huidobrensis 2174
- Halys dentata**, parasitoids, *Anastatus* 994
- Haplogonatopus apicalis**, hosts, *Sogatella*
furcifera 527
- Haplothrips ganglbaueri**, predators, *Orius*
maxidentex 2302
- Harmonia axyridis**
aggressive behaviour 910
Aphis gossypii, biological control 143

- Harmonia axyridis** cont.
Asia 1314
Coccinella septempunctata, interspecific competition 2007
Coleomegilla maculata, interactions 1448
insecticides, nontarget effects 1838
Macrosiphum euphorbiae, biological control, Belgium 187
morphology 1968
parasitoids, *Strongygaster triangulifera* 1321
pathogens 1314
pecan orchards, USA 909
prey
 Aphis craccivora 910
 Matsucoccus matsumurae 671
 Phyllonorycter ringoniella 1838
 Schizaphis graminum 1968
 sweetcorn fields, USA 1448
 temperature 540
Harmonia dimidiata, prey, Aphididae 1374
Harmonia octomaculata
prey, *Scirpophaga incertulas* 1459
rice fields, India 1459
Harpalus aeneus
phenology, lucerne fields, USA 1469
prey, *Acyrtosiphon pisum* 1469
Harpalus affinis
life cycle 1317
steppes, Moldova 1317
Harpalus pennsylvanicus
fields, USA 13
phenology, lucerne fields, USA 1469
prey, *Acyrtosiphon pisum* 636, 1469
Harpalus rufipes
dispersal, oat fields, Norway 1445
prey
 Brevicoryne brassicae 1414
 Metopolophium dirhodum 1414
 Rhopalosiphum padi 1414
 Sitobion avenae 1414
seed predation, USA 89
weeds 89
Harrisina metallica
parasitoids, *Ametadoria misella* 874
pathogens, granulosis viruses 874
Hayhurstia atriplicis, parasitoids, *Diaeretiella rapae* 1975
Hazelnuts, *Curculio nucum*, Turkey 1617
Heat shock, *Trichogramma brassicae* 2040
Heat tolerance, entomophilic nematodes 2719
Hedges
beneficial arthropods, France 2056
beneficial insects, Netherlands 2262
Heteroptera, France 633
 Rhyzobius forestieri, Italy 968
Hedychium gardnerianum, biological control, *Ralstonia solanacearum*, USA 2463
Hedypathes betulinus, parasitoids, *Labena flori* 1890
Heleidomeris magnapapula, hosts, *Culicoides variipennis* 354
Helicoverpa
apples, Australia 867
biological control, *Bacillus thuringiensis* 941
cotton, Australia 1655
Helicoverpa armigera
 Bacillus thuringiensis, resistance, China 453
 biological control
 Bacillus thuringiensis 943, 1955
 Bacillus thuringiensis subsp. *kurstaki* 1540
 Beauveria bassiana 778
 Nomuraea rileyi 2324
 nuclear polyhedrosis viruses 473, 775, 1543
 Orius, Spain 944
 pathogens
 Australia 733
 India 1484
 Trichogramma, Japan 1356
 Trichogramma chilonis, China 938
 Trichogramma pretiosum 1540
 chickpeas, India 778, 781, 1484
 cotton, China 938, 1661
 integrated control, nuclear polyhedrosis viruses, India 833
Helicoverpa armigera cont.
maize
 Australia 733
 Taiwan 44
 parasitoids
 Campoletis chlorideae 773, 2172
 Carcelia 2172
 Diptera 773
 Trichogramma australicum 536-537, 601, 2661-2662
 Trichogramma bouwarachae 1197
 Trichogramma chilonis 939, 1487, 2172, 2337
 Trichogramma cordubensis 1197
 Trichogramma evanescens 1197
 Trichogramma pintoi 1197
 Trichogrammatoida armigera 554
 pathogens
 Bacillus thuringiensis 1377, 1381, 2646
 Bacillus thuringiensis subsp. *bolivia* 2712
 Bacillus thuringiensis subsp. *kurstaki* 622
 Beauveria bassiana 2646
 Beauveria brongniartii 1381
 cytoplasmic polyhedrosis viruses 1381
 granulosis viruses 1381
 Metarhizium anisopliae 1381
 Nomuraea rileyi 44
 nuclear polyhedrosis viruses 682, 922, 1126, 1208, 1226, 1381, 1923, 2328, 2646
 Steinernema 555, 1384
 pigeon peas, India 2172
 predators, *Rhynocoris marginatus* 2675
 sunflowers 922
 tomatoes, India 1540, 1542-1543
 Trichogramma chilonis, biological control, India 781
Helicoverpa punctigera
parasitoids, *Trichogramma* 819
tomatoes, Australia 819
Helicoverpa zea
biological control
 Baculoviridae 2339
 Baculovirus 274
 nuclear polyhedrosis viruses, USA 264, 2331
 Trichogramma exiguum, USA 262
cotton, USA 262, 264, 274
food plants, USA 2331
parasitoids
 Ichneumon promissorius 541
 Trichogramma pretiosum 1874, 1919, 2651
pathogens
 Bacillus thuringiensis 249, 266, 1438
 Baculoviridae 710
 nuclear polyhedrosis viruses 610, 1225, 1330, 1438, 1863, 1912
predators
 Chrysoperla externa 1919
 Coleomegilla maculata 1440
 Doru luteipes 1919
 Geocoris 1483
 Nabis 1483
 Orius insidiosus 1432, 1483
 Orius strigicollis 1402
 Orius tantillus 1402
 Telenomus 1919
 soyabeans, USA 1483
Helina reversio, pathogens, *Strongwellsea* 2433
Heliothis
biological control, Australia 254
cotton, Australia 254
Heliothis subflexa
parasitoids, *Cardiochiles nigriceps* 1602
Physalis angulata 1602
Heliothis virescens
biological control
 Bacillus thuringiensis subsp. *kurstaki*, USA 2330
 Baculoviridae 2339
 Baculovirus 274
 Microplitis croceipes, USA 2330
 nuclear polyhedrosis viruses, USA 264, 2331
 Trichogramma exiguum, USA 262
Heliothis virescens cont.
cotton, USA 262, 264, 274, 2330
diets 1237
food plants, USA 2331
pathogens
 Bacillus thuringiensis 249, 2600
 Baculoviridae 710
 granulosis viruses 2203
 nuclear polyhedrosis viruses 623, 1225, 1237, 1330, 1334, 2203
 predators, *Chrysoperla rufilabris* 494
Heliothrips haemorrhoidalis
parasitoids
 Megaphragma amalphanum 1940
 Megaphragma mymaripenne 1940
Helopeltis antonii, pathogens, *Aspergillus tamarii* 2293
Helopeltis perniciosa
biological control, *Oecophylla smaragdina* 1212
predators, *Oecophylla smaragdina* 908
Helophorus, pathogens, *Rhynchophoromyces helophori* 2565
Hemerobiidae, maize fields, Spain 2132
Hemerobius, habitats, USA 714
Hemiberlesia pityophila
biological control
 Coccobius azumai
 China 635, 1227
 Japan 1227
Hemileia vastatrix, antagonists, *Verticillium lecanii* 1645
Hemiplatensis unguicellus, hosts, *Chromatomyia fuscula* 755
Hemiplatensis varicornis
hosts, *Liriomyza trifolii* 72, 1291, 1702, 2614
Japan 1320
life cycle 1291
parasitoids, *Liriomyza trifolii* 1320
reproduction 2614
Hemiptera
food plants, *Hieracium pilosella* 1800
Hungary 1800
prey, *Chrysoperla carnea* 1656
Hemisarcophaga, *Chilocorus*, symbiosis 1970
Hemisarcophaga coccophagus
Diaspididae, biological control, New Zealand 1565
orchards, New Zealand 1565
Hemisarcophaga cooremani
hosts
 Aonidiella aurantii 1983
 Aspidiotus nerii 1983
reproduction 1983
Hemisarcophaga malus
apple orchards, Turkey 865
hosts, *Lepidosaphes ulmi* 865
Hieracium mantegazzianum, biological control, insects 404
Hieracium sphondylium, biological control, insects 404
Herbicides
nontarget effects
 Araneae 744
 beneficial arthropods 1135
 predatory arthropods 138
Hesperoleucas symmetricus, prey, Chironomidae, Sweden 1766
Heterobasidion annosum
biological control
 Europe 696
 models 291
 North America 696
 Phlebia gigantea, Finland 291
 Phlebiopsis gigantea 2365
 Poland 293
 UK 1692
 Sweden 1690
Picea 2365
Picea abies
 Finland 291
 Sweden 1690
 Pinopsida, UK 1692
Heteroconium chaetospora, *Plasmodiophora brassicae*, biological control 793
Heterodera
nematophagous fungi
 Acremonium 2190
 Verticillium chlamydosporium 2190
potatoes 2190

Heterodera cajani

nematophagous fungi

Botryodiplodia theobromae 2182*Cladosporium herbarum* 2182**Heterodera glycines**

biological control

bacteria 77

nematophagous fungi 2184

pathogens, *Pasteuria nishizawae* 2572, 2639

soybeans 77, 2184

Korea Republic 2572

Heterodera schachtii

biological control, nematophagous fungi 244

nematophagous fungi

Arthrobotrys dactyloides 1336*Arthrobotrys haptotyla* 1336*Arthrobotrys thumasia* 1336*Embellisia chlamydospora* 244*Paecilomyces fumosoroseus* 2645*Verticillium chlamydosporium* 244

sugarbeet 244

Heteroperreyia hubrichi*Schinus terebinthifolius*

biological control

Brazil 1069

USA 1069

Heteropsylla cubana

biological control

natural enemies 1670

South Pacific 10

prey, *Serangium serratum* 2567**Heteroptera**

olive orchards, Spain 873

prey, *Prays oleae* 873**Heterorhabditidae**hosts, *Boophilus annulatus* 1772

infectivity, soil 1772

Heterorhabditis

adjuvants 454

application, low volume sprayers 1508

behaviour, models 2659

Cosmopolites sordidus, biological control, Venezuela 2077

environmental factors 2745

geographical distribution, Europe 2752

hosts

Carpophilus hemipterus 2278*Diabrotica virgifera virgifera* 1199*Galleria mellonella* 608, 639, 2745*Lycoriella auripila* 1232*Megaselia halterata* 1232*Otiorynchus sulcatus* 608*Plutella xylostella* 1508*Spodoptera exigua* 608*Tipula oleracea* 639*Urophorus humeralis* 2278

insect pests, biological control 2659

Isoptera 2594

Otiorynchus sulcatus, biological control, models 485*Photorhabdus luminescens*, symbiosis

639

soil

Guadeloupe 1324

Slovakia 2751

sprayers, application 474

taxonomy 503

Temnorhinus mendicus, biological control

2309

usage 1146

Xenorhabdus, interactions 2644*Zeuzera pyrina*, biological control, Egypt

1393

Heterorhabditis bacteriophora

Coleoptera, biological control 983

Cosmopolites sordidus, biological control, Venezuela 2077*Cydia pomonella*, biological control 875*Cyrtomenus bergi*, biological control, Colombia 1493

entomogenous fungi, interactions 2730

genetic diversity 615

host specificity, Argentina 1946

hosts

Amblyomma americanum 1771*Amblyomma cajennense* 1771*Amblyomma maculatum* 1771*Anomala orientalis* 1390*Carpophilus hemipterus* 2278**Heterorhabditis bacteriophora cont.**

hosts cont.

Cotinis nitida 520*Cyclocephala hirta* 1390*Cyclocephala pasadenae* 1390*Dermacentor variabilis* 1771*Galleria mellonella* 639, 1946, 2640, 2718

Hymenoptera 1946

Ixodes scapularis 1047

Lepidoptera 1946

Musca domestica 1760

Orthoptera 1946

Pectinophora gossypiella 476*Popillia japonica* 1262*Rhipicephalus sanguineus* 1771*Sitona lineatus* 74, 2730*Tipula oleracea* 639*Urophorus humeralis* 2278*Ostrinia nubilalis*, biological control 54*Otiorynchus ligustici*, biological control, USA 1468*Otiorynchus sulcatus*

biological control

Italy 2382

USA 988, 2261

pathogenicity 2783

Photorhabdus luminescens, symbiosis

639

Pseudococcidae, biological control, Cuba

1647

Temnorhinus mendicus, biological control

2309

Heterorhabditis hawaiiensis, genetic diver-

sity 615

Heterorhabditis heliothidis, hosts, *Ixodes**scapularis* 1047**Heterorhabditis hepialius**, genetic diversity

615

Heterorhabditis indicus*Cosmopolites sordidus*, biological control, Venezuela 2077

genetic diversity 615

new geographic records, Pakistan 645

Heterorhabditis marelatus*Cydia pomonella*, biological control 1567

genetic diversity 615

Otiorynchus sulcatus, biological control, USA 2261**Heterorhabditis megidis**

culture techniques 1150

genetic diversity 615

hosts

Galleria mellonella 639*Ixodes scapularis* 1047*Locusta migratoria* 2727*Musca domestica* 365, 1760*Schistocerca gregaria* 2727*Tipula oleracea* 639*Photorhabdus luminescens*, symbiosis

639

Heterorhabditis zealandica

genetic diversity 615

New Zealand 720

Papuana uninodis, biological control 85**Heterospilus prosopidis**

hosts

Callosobruchus chinensis 999, 1942, 2736*Callosobruchus maculatus* 341, 1316

longevity 1942

population dynamics 1316, 2736

Heterotermes tenuisbiological control, *Beauveria bassiana*, Brazil 928

sugarcane, Brazil 928

Heterotoma meriopterum, hedges, France

633

Hevea brasiliensis, *Rigidoporus lignosus* 319**Hexaflumuron**

nontarget effects, beneficial arthropods

857

toxicity, *Eretmocerus orientalis* 1830**Hexythiazox**, toxicity, *Adalia bipunctata*

1829

Hieracium pilosella

natural enemies

Aulacidea pilosellae 1800

Coleoptera 1800

Hemiptera 1800

Tephritis ruralis 1800**Hieroglyphus daganensis**biological control, *Metarhizium**anisopliae* 2547

models, biological control 2547

Hippodamia, *Macrosiphum euphorbiae*, bio-

logical control, Belgium 187

Hippodamia convergens

aggressive behaviour 910

biology 1332

feeding behaviour 2008

habitats, USA 714

insecticides, toxicity 461, 1123

life tables 2653

movement 602

pathogens, *Beauveria bassiana* 1913

pecan orchards, USA 909

prey

Acyrtosiphon pisum 602*Aphis craccivora* 910*Pectinophora gossypiella* 1138*Phorodon humuli* 2008**Hirsutella nodulosa**hosts, *Chilo sacchariphagus indicus* 931

India 931

Hirsutella rhossiliensis, *Meloidogyne incog-*

nita, biological control 2233

Holcorthorax testaceipeshosts, *Phyllonorycter ringoniella* 1838

insecticides, nontarget effects 1838

Holotrichia

predators

Acridotheres tristis 1491*Bubulcus ibis* 1491*Corvus splendens* 1491*Vanellus indicus* 1491**Holotrichia consanguinea**

pathogens

Beauveria bassiana 1934*Beauveria brongniartii* 1934*Metarhizium anisopliae* 1934**Homalodiscia coagulata**

parasitoids

Gonatocerus ashmeadi 662*Gonatocerus fasciatus* 662*Zagalla* 662**Homalotylus**

keys 1176

new species 1176

Homalotylus eytelweiniihosts, *Cheilomenes sexmaculata* 2303

sunflower fields, India 2303

Homona magnanima

pathogens

Bacillus thuringiensis 1144*Bacillus thuringiensis* subsp. *kurstaki*

659

Homoptera

mandarins, India 1596

predators, predatory insects 1596

Honduras, *Spodoptera frugiperda*, biological

control, nuclear polyhedrosis viruses

1433

Hong Kong, *Tessaratomia papillosa*, biologicalcontrol, *Anastatus japonicus* 1613**Hop fields**, Steinernematidae, Czech Repub-

lic 2395

Hop gardens, *Neoseiulus fallacis*, USA

2322

Hops*Otiorynchus ligustici*, Czech Republic

2395

Tetranychus urticae, USA 2322**Horismenus***Citrus aurantiifolia* orchards, Mexico 206*Citrus* orchards

Brazil 1614

USA 2283

hosts

Araneae 2419

Phyllocnistis citrella 206**Horses**, Nematoda, biological control 385**Horticultural crop fields**, Phytoseiidae,

Spain 718

Hospitals, *Blattella germanica*, Denmark

2440

Host parasite relationships, models 482**Host preference**, *Trichogramma dendrolimi*

2683

Host-seeking behaviour*Allotysta vittrix* 2005*Amius bennetti* 2660

Host-seeking behaviour *cont.*

- Aphidius colemani* 1258
- Aphidius ervi* 577, 2178
- Aphytis melinus* 593
- Asobara tabida* 2001
- Biosteres juglandis* 221
- Braconidae 2700
- Cotesia* 578
- Dendrocerus carpenteri* 2696
- Diachasmimorpha tryoni* 2698
- Diadromus pulchellus* 1993
- Diaeretiella rapae*, models 595
- Encarsia formosa* 2690
- Hymenoptera 591-592
- Lariophagus distinguendus* 1266
- Liris nigra* 1260
- Macrocentrus cingulum* 745
- Melitaea cinxia* 1287
- Microplitis croceipes* 2672
- parasitoids 576, 583, 1280
- Pimpla turionellae* 579
- Rhopobota naevana* 1261
- Telenomus busseolae*, models 1279
- Trichogramma* 475, 819
- Trichogramma chilonis* 781
- Trichogramma exiguum* 570

Host selection

- Exorista japonica* 2004
- Pseudacteon* 605

Host specificity, entomophilic nematodes, Argentina 1946**Hungary**

- Araneae, apple orchards 1574
- Carabidae, seasonal cycle, apple orchards 1571
- Culicidae
 - biological control
 - Bacillus thuringiensis* 1748
 - Bacillus thuringiensis* subsp. *israelensis* 1747
- Heterorhabditis*, geographical distribution 2752
- Hieracium pilosella*, natural enemies 1800
- Hymenoptera, lucerne fields 1470
- pome fruits, insect pests, biological control, Araneae, books 2098
- predatory arthropods, cucumber fields 831
- predatory insects, crop fields 17
- Tetranychus urticae*
 - biological control
 - Seiulus finlandicus* 831
 - Zetzellia mali* 831

Hyalomyodes

- fields, Brazil 1486
- hosts, *Euschistus heros* 1486

Hyalopterius pruni

- plums, Bulgaria 2245
- predators

- Aphidoletes aphidimyza* 2245
- Coccinella septempunctata* 2245
- Coccinellidae 2024
- Syrphus ribesii* 2245

Hyblaea puera

- biological control, nuclear polyhedrosis viruses, India 955
- natural enemies 2350
- pathogens, *Aspergillus flavus* 957
- Tectona grandis*, India 955, 957, 2350

Hybopygia varia

- parasitoids
- Alysia manducator* 1024
- Aphaereta aotea* 1024
- Tachinaephagus zealandicus* 1024

Hybotidae, fields, Germany 912**Hydrellia**, keys 512**Hydrellia pakistanae**, aquatic weeds, biological control, USA 2504**Hydrilla verticillata**

- biological control
- insects, USA 2504
- USA 424
- pathogens, *Plectosporium tabacinum* 1810

Hydrobius fuscipes, pathogens, *Ceratomyces pyrenaeus* 2565**Hydrocarbons**, Pteromalidae, poultry farms, USA 1767**Hydrometra stagnorum**, prey, *Culex pipiens* 360**Hylemya vagans**, pathogens, *Strongwellsea castrans* 2433**Hyles lineata**, pathogens, *Cotesia congregata* 627**Hylobius abietis**

- biological control
- microbial pesticides, UK 1688
- Poland 949
- forest trees, UK 1688

Hylobius transversovittatus

- Lythrum salicaria*, biological control, North America 2511
- reproduction 1982

Hylyphantes graminicola

- agricultural chemicals, nontarget effects 2534
- cotton fields, China 1661
- functional responses 48
- population dynamics 1461, 1661
- prey
 - Salina* 48
 - Schizaphis graminum* 1461
 - Sitobion avenae* 1461
 - Sogatella furcifera* 48
- wheat fields, China 1461

Hymenolepis diminuta, hosts, *Tenebrio molitor* 2722**Hymenoptera**

- Argentina 1410
- crop fields 1412
- Cucurbitaceae fields, USA 1547
- detection, ELISA 483
- fields, UK 1318
- host-seeking behaviour 576, 591-592
- hosts
 - Agromyzidae 2742
 - Aphididae 1318
 - Diplolepis fukudae* 1708
 - Empoasca fabae* 2193
 - Epilachna similis* 752
 - Lepidoptera 105, 1980
 - Lyonetia clerkella* 1566
 - Pieris rapae* 105
 - Plutella xylostella* 105
 - Tephritidae 592
 - Thysanoptera 1206
- insect communities, Argentina 2742
- Japan 1566
- life history, reviews 1228
- orange orchards, Australia 1593
- pathogens
 - Heterorhabditis bacteriophora* 1946
 - Steinernema feltiae* 1946
 - Steinernema rarum* 1946
 - Wolbachia* 2608
- population dynamics 1318
- potato fields, USA 2193
- predators, *Iridomyrmex rufoniger* group 1593
- reproduction 1980
- Scolytidae, biological control, Spain 1686

Hypera postica

- biological control
- Bathyplectes*, USA 759
- Metarhizium anisopliae* 2080
- North America, reviews 1471
- predators

- Coccinella septempunctata* 567
- Coccinella transversoguttata* 567

Hypera punctata, parasitoids, *Bathyplectes* 1362**Hypericum perforatum**

- biological control
- Chrysolina hyperici*, Canada 434
- insects 425
- natural enemies, seed predators 427

Hyphantria cunea

- natural enemies, Russia 719
- parasitoids, *Exorista japonica* 1094
- pathogens

Nosema 1916*Nosema bombycis* 1916**Hypholoma fasciculare**

- Armillaria, biological control, Poland 278
- forest trees, Poland 278

Hypoaspis, *Frankliniella occidentalis*, biological control 986**Hypoaspis aculeifer**, new geographic records, *Morchella* habitats, Turkey 1714**Hypomecis**

- Azadirachta indica*, India 2399
- parasitoids

Aleiodes 2399*Apanteles fabiae* 2399**Hyporhygma quadripunctatum**, aquatic plants, biological control, USA 437**Hypoosoter**, habitats, USA 714**Hypoosoter horticola**, hosts, *Melitaea cinxia* 634**Hypothenemus hampei**

- biological control
- Beauveria*, East Africa 1644
- Bethylidae
 - Colombia 2318
 - Mexico 2317
- Cephalonomia stephanoderis*, Colombia 2319
- South East Asia 700
- coffee
 - Colombia 1648, 2318-2319
 - East Africa 1644
 - Guatemala 246
 - Mexico 2317
- ectoparasites, *Cephalonomia* 1194
- integrated control, *Cephalonomia stephanoderis*, Guatemala 246
- parasitoids, *Cephalonomia hyalinipennis* 1236
- pathogens, *Beauveria bassiana* 2083
- predators, *Cephalonomia stephanoderis* 1648

Hypothenemus obscurus

- biological control, Coleoptera, USA 1618
- Macadamia*, USA 1618

Hypsipyla robusta

- biological control, China 281
- Toona sinensis*, China 281

Ibalia leucospoides, *Sirex noctilio*, biological control 2094**Icerya**

- biological control, *Rodolia* 882
- breadfruits, Pacific Islands 882

Icerya aegyptiaca, biological control, South Pacific 10**Ichneumon**

- habitats, maize fields, USA 1452
- hosts, *Mythimna unipuncta* 1452

Ichneumon promissorius, hosts, *Helicoverpa zea* 541**Ichneumonidae**

- apple orchards, Switzerland 178
- fields, Indonesia 12
- hosts

- Adoxophyes orana* 178
- Bucculatrix ansinella* 970
- Cydia pomonella* 178
- Dioryctria abietella* 292

- insecticides, nontarget effects 2523
- new geographic records, Bulgaria 2749
- pear orchards, Italy 2523
- street trees, Canada 970

Ichthyodes centurio, food plants, *Lantana camara* 415**Identification**

- Bacillus thuringiensis*, strains 1139
- nuclear polyhedrosis viruses 480
- Orius minutus* 1539
- Orius sauteri* 1539
- Trichoderma* 2756
- Trichogramma*, North America 2720

Idiomacromerus perplexus

- lucerne fields, Hungary 1470
- separators 1470

Imidacloprid

- nontarget effects
- beneficial arthropods 942
- Coccinella septempunctata* 2533
- entomogenous fungi 466
- Orius insidiosus* 2536

toxicity

- Agrotis citricola* 1608
- beneficial insects 1118
- entomogenous fungi 1105
- Eretmocerus orientalis* 1830
- predatory insects 1123

Immune response, *Acheta domestica* 1307**In vitro culture**, nuclear polyhedrosis viruses, pathogenicity 1882**Inbreeding**, *Podisus maculiventris* 1979

- Incisalia fotis*, *Bacillus thuringiensis*, nontarget effects 449
- India**
- Aphelinidae, taxonomic revisions 513
- Aphis craccivora*, biological control, *Fusarium pallidoroseum* 2177
- arthropod pests, *Piper belle*, biological control, Acari 2315
- beneficial insects, kohlrabi fields 1509
- Betasyrphus* 777
- Chilo auricilius*, biological control, *Trichogramma chilonis* 1631
- Coccinella septempunctata*, rape fields 234
- Coccinellidae
- safflower fields 1621
- Vigna catjang* fields 2179
- Diadegma apostata*, aubergine fields 1529
- Eupeodes*, rape fields 234
- Inglisia bivalvata*, biological control 276
- insect pests, cotton, biological control 2333
- integrated pest management 1817
- Jauravia hanifi* 510
- Macrophomia phaseolina*, biological control, *Trichoderma viride* 1474
- Magnaporthe grisea*, biological control, *Pseudomonas fluorescens* 732
- multipurpose trees, insect pests, natural enemies 277
- Omphale epilachni* 509
- parasitoids, sorghum fields 735
- Parthenium hysterophorus*
- biological control 440
- Zyogramma bicolorata* 1801
- Phytophthora capsici*, integrated control, *Trichoderma harzianum* 2393
- predators, cabbage fields 804
- predatory arthropods
- rice fields 52
- sugarcane fields 1632
- Pseudoshirakia*, sugarcane fields 241
- Rhizoctonia solani*, biological control, *Trichoderma* 81
- rice, integrated pest management 1816
- Tetranychus dellaris*, biological control, *Chrysoperla carnea* 2514
- tobacco pests, biological control, books 934
- Trichoderma*, potato fields 81
- Trichogramma chilonis*
- biological control, *Helicoverpa armigera* 781
- intercropping, pigeon pea fields 1487
- India (Andhra Pradesh)**
- parasitoids, sorghum fields 750
- predatory arthropods, field crop fields 780
- India (Assam)**
- Araneae, sugarcane fields 1633
- Coccinellidae, *Citrus* orchards 203
- Rhizoctonia solani*
- biological control
- Bacillus subtilis* 27
- Trichoderma viride* 27
- India (Bihar)**, *Helicoverpa armigera*, biological control, pathogens 1484
- India (Delhi)**, Coccinellidae, wheat fields 1446
- India (Gujarat)**
- Chelonus*, *Pennisetum glaucum* fields 2135
- Epicranis melanoleuca*, sugarcane fields 929
- Pyrilla perpusilla*, biological control, *Epicranis melanoleuca* 243
- India (Haryana)**, tomatoes, integrated pest management 2515
- India (Himachal Pradesh)**, Hymenoptera, pea fields 2173
- India (Indian Punjab)**
- insect pests, biological control, predatory insects 229
- Parthenium*, biological control, *Zyogramma bicolorata* 412
- predatory insects, sunflower fields 229
- Zyogramma bicolorata*, *Parthenium* 1794
- India (Karnataka)**
- Araneae, rice fields 724
- India (Karnataka) cont.**
- beneficial insects
- Annona squamosa* orchards 878
- Citrus* orchards 899
- mango orchards 877
- Chilocorus nigrita*, orchards 2272
- Chloropulvinaria polygonata*, biological control, *Cryptolaemus montrouzieri* 877
- Chloropulvinaria psidii*, biological control, *Cryptolaemus montrouzieri* 2271
- integrated pest management 1820
- natural enemies, tobacco fields 2321
- parasitoids 1378
- Pareuchaetes pseudoinulata* 1884
- Sclerospora graminicola*, biological control, *Pseudomonas fluorescens* 26
- Scutellista caerulea*, *Annona squamosa* orchards 2282
- India (Kerala)**
- beneficial arthropods, rice fields 1429
- Chromolaena odorata*, biological control, *Acalitus adoratus* 411
- Hyblaea pueria*, biological control, nuclear polyhedrosis viruses 955
- Phytophthora capsici*
- biological control
- Bacillus* 323
- Trichoderma harzianum* 323
- Spalgis epeus*, coffee plantations 933
- India (Madhya Pradesh)**
- Chilo infuscatellus*, biological control, granulosis viruses 927
- Hyblaea pueria*, *Tectona grandis* 957
- parasitoids, chickpea fields 773
- India (Maharashtra)**
- Fusarium oxysporum* f.sp. *sesami*, biological control, *Trichoderma* 225
- Homalotylus eytelweinii*, sunflower fields 2303
- Orius maxidentex*, sunflower fields 2302
- parasitoids, sorghum fields 750
- India (Manipur)**, *Perilampus nesiotis* 1731
- India (Orissa)**
- Phlaeothrips anacardii*, rose fields 979
- predatory arthropods, rice fields 1447
- India (Pondicherry)**, parasitoids, rice fields 748
- India (Tamil Nadu)**
- Araneae, rice fields 2140
- beneficial arthropods, cotton fields 1659
- Helicoverpa armigera*, integrated control, nuclear polyhedrosis viruses 833
- Hirsutella nodulosa* 931
- Pediobius foveolatus*, seasonal abundance, aubergine fields 1535
- Rhizoctonia solani*, biological control, *Pseudomonas putida* 1427
- Rhynocoris marginatus*, blood composition 2043
- India (Uttar Pradesh)**
- beneficial insects, rice fields 1459
- Chilo auricilius*, biological control, *Sturmiosis inferens* 1637
- Hymenoptera, pigeon pea fields 2172
- natural enemies, lemon orchards 198
- India (West Bengal)**
- Plasmodiophora brassicae*, biological control, bacteria 99
- predatory insects, mandarin orchards 1596
- Indonesia**
- Chromolaena odorata*, biological control, *Procecidochares connexa* 423
- Cunaxidae 1177
- Lycosa pseudoannulata*, rice fields 47
- Nematoda, biological control 1028
- parasitoids, fields 12
- Phthorimaea operculella* 2750
- Indoxacarb**
- nontarget effects
- beneficial insects 268
- Orius insidiosus* 2536
- toxicity, beneficial insects 2538
- Infection**, *Steinernema feltiae* 1761
- Infectivity**
- Heterorhabditidae, soil 1772
- Paecilomyces fumosoroseus* 1950
- Steinernematidae, soil 1772
- Inglisia bivalvata**
- biological control, India 276
- food plants, India 276
- Inopius flavus**
- biological control, *Metarhizium anisopliae*, Australia 1642
- sugarcane, Australia 1642
- Inopius rubriceps**
- biological control, *Metarhizium anisopliae*, Australia 1642
- sugarcane, Australia 1642
- Inostemma**, hosts, *Thecodiplosis japonensis* 2364
- Insect communities**
- Hymenoptera, Argentina 2742
- parasitoids 2735
- reviews 2738
- Insect pests**
- biological control
- China 1352
- entomophilic nematodes, reviews 690
- parasitoids, reviews 672
- Sri Lanka 2768
- Wolbachia* 650
- integrated control 11
- Insect viruses**
- characterization, restriction fragment length polymorphism 1856
- Cotesia congregata*, interactions 2717
- granulosis viruses 614, 874
- hosts, *Plautia stali* 528
- Iridoviridae 1953
- nuclear polyhedrosis viruses 612, 1952
- Polydnaviridae 2650
- research 1382
- Insecticide resistance**, *Anisopteromalus calandrae* 1104, 2030
- Insecticides**
- nontarget effects
- Araneae 1844
- beneficial arthropods 894
- Kampimodromus aberrans* 1839
- parasitoids 1832
- toxicity
- Parachrysocharis javensis* 1103
- parasitoids 1093
- Insects**
- aquatic weeds, biological control, USA 439
- Hypericum perforatum*, biological control 425
- pathogens, resistance 677
- Tamarix chinensis*, biological control, USA 1055
- weeds, biological control, North America 430
- Integrated control**
- Acantholyda piceicola*, China 1814
- Anopheles aquasalis*, *Bacillus thuringiensis* subsp. *israelensis*, Venezuela 1742
- Botrytis allii* 2185
- Centaurea diffusa*, *Sphenoptera jugoslavica*, USA 2499
- Centaurea maculosa*, *Cyphocleonus achates*, USA 2496
- cotton 255
- cucumbers, France 827
- Dasychira melli*, *Beauveria bassiana*, China 1694
- Eichhornia crassipes*, USA 2505
- Frankliniella occidentalis*
- Croatia 1707
- Neoseiulus cucumeris*, France 1546
- grapes, conferences 694
- greenhouse crops, Europe 832
- Helicoverpa armigera*, nuclear polyhedrosis viruses, India 833
- Hypothenemus hampei*, *Cephalonomia stephanoderis*, Guatemala 246
- insect pests 11
- China 2142
- Isoptera 1085
- Jatropha curcas*, Nicaragua 2290
- Liriomyza trifolii*, Croatia 1706
- Locusta migratoria manilensis*, *Nosema locustae*, China 1821
- Phytophthora capsici*, *Trichoderma harzianum*, India 2393
- rodents, cats, Guinea-Bissau 1727
- statistical analysis 1855

- Integrated control** *cont.*
 stored products pests
 conferences 2097
 natural enemies, reviews 2406
 tropics 2405
- Integrated pest management**
 cabbages 1505
 cotton
 China 2335
 USA 2340
 directories 1086
 Europe, reviews 1087
 field crops 1412
 fruits 1561
 grapes, USA 1583
 India 1817, 1820
 mangoes 1606
Moringa oleifera 1819
 orchards, insect pests, conferences 2246
 potatoes, Brazil 2186
 rice, India 1816
 soil pests 2518
 stone fruits 174
 strawberries 162
 Belgium 2235
 temperate fruits, Korea Republic 2255
 tomatoes 1542, 2217
 India 2515
 vegetables 1818
- Interactions**
Ascogaster reticulatus, *Entomopoxvirus* 638
Beauveria bassiana, *Metarhizium flavoviride* 1908
Coccinella septempunctata, *Coleomegilla maculata* 2053
Dysmicoccus brevipes, natural enemies, *Pheidole megacephala* 1616
Harmonia axyridis, *Coleomegilla maculata* 1448
Lycosa pseudoannulata, *monocrotophos* 47
Meloidogyne javanica, *Pasteuria penetrans* 157
Pnigalio nemati, *Pontania proxima* 961
Trichogramma minutum, parasitoids 950
- Intercropping**
 predatory arthropods, cotton fields, Australia 1655
Trichogramma chilonis, pigeon pea fields, India 1487
- Interspecific competition**
Ametadoria misella, granulosis viruses 874
Coccinella septempunctata, *Coleomegilla maculata* 786
Copidosomopsis tanytmemus, *Bracon hebetor* 1246
Parthenium hysterophorus, *Cenchrus ciliaris* 419
- Intraspecific competition**, *Trissolcus basalus* 1275
- Introduced species**, biological control 637
- Iphiseius degenerans*, prey, *Scirtothrips citri* 892
- Ipomoea carnea*, *Puccinia puta*, Brazil 2063
- Ipomoea carnea* extracts, nuclear polyhedrosis viruses, interactions 2516
- Ipomoea lacunosa*, biological control, pathogens 2487
- Iprobenfos*, nontarget effects, predatory insects 2534
- Iridomyrmex anceps*, prey, *Matsucoccus matsumurae* 671
- Iridomyrmex rufoniger* group
 prey
 Acari 1593
 Araneae 1593
 Hymenoptera 1593
 Neuroptera 1593
- Iridoviridae**
 formulations 1137
 hosts
Gryllus bimaculatus 1953
Locusta migratoria migratorioides 1953
- Iridovirus*, hosts, *Aedes aegypti* 2423
- Irish Republic**
Ctenarytaina eucalypti, biological control, *Psyllaephagus pilosus* 990
Pnigalio nemati, forests 961
- Ischiodon scutellaris**
 kohlrabi fields, India 1509
 mandarin orchards, India 1596
 population dynamics 1509, 1596
 prey
Aphis craccivora 777, 2695
 Homoptera 1596
Myzus persicae 1509
- Isocarobophos**, nontarget effects, beneficial insects 1838
- Isoptera**
 integrated control 1085
 pathogens
Cordycepioideus bisporus 511
 entomophilic nematodes 2594
 predators
Agelenopsis aperta 1285
Argiope trifasciata 1285
- Isoxathion**, toxicity, *Exorista japonica* 1094
- Israel**
 Phytoseiidae 1891
 plant pathogenic fungi, biological control, antagonists 1511
- Italy**
Amblyseius andersoni, apple orchards 870
Aphelopus, vineyards 2253
Aphis gossypii, biological control, *Aphidius colemani* 828
 beneficial insects, pear orchards 2523
Centaurea solstitialis, biological control, *Bangasternus orientalis* 1798
Ceroplastes japonicus, biological control, *Chilocorus kuwanae* 966
Cirrospilus, lemon orchards 1600
Coenosia, greenhouses 2091
 Culicidae, biological control, *Bacillus thuringiensis* subsp. *israelensis* 1746
 Eulophidae, orange orchards 1599
 Hymenoptera, *Quercus robur* forests 967
Kampidromus aberrans, vineyards 1839
 Lepidoptera, biological control, *Bacillus thuringiensis* subsp. *kurstaki* 799
Megaphragma 1940
Melolontha, biological control, *Beauveria brongniartii* 648
Metcalfa pruinosa, biological control, *Neodryinus typhlocybae* 717
 natural enemies, *Citrus* orchards 1601
Neoseiulus californicus, functional responses, strawberry fields 1575
Otiorynchus sulcatus, biological control, *Heterorhabditis bacteriophora* 2382
Phyllocnistis citrella
 biological control
Ageniaspis citricola 1611
Cirrospilus 1600
 predatory insects
 population dynamics, *Prunus avium* plantations 2354
 vineyards 852
 predatory mites, vineyards 2254
Rhyzobius forestieri, hedges 968
Trialeurodes vaporariorum, biological control, *Acletoxenus formosus* 315
- Ithome**
 biological control, *Bacillus thuringiensis*, Chile 2357
Prosopis tamarugo, Chile 2357
- Itopectis naranyae**
 fields, China 100
 hosts, *Plutella xylostella* 100
- Ixodes*, parasitoids, *Ixodiphagus* 1025
- Ixodes scapularis**
 parasitoids
Ixodiphagus hookeri 370, 1042
Peromyscus leucopus 370
 pathogens
Bacillus 372
Heterorhabditis bacteriophora 1047
Heterorhabditis heliothidis 1047
Heterorhabditis megidis 1047
Steinernema carpocapsae 1047
Steinernema felinae 1047
Steinernema riobrave 1047
- Ixodidae**, biological control 1046, 1775
- Ixodiphagus**
 hosts
Amblyomma 1025
- Ixodiphagus** *cont.*
 hosts *cont.*
Dermacentor 1025
Ixodes 1025
- Ixodiphagus hookeri**
 hosts
Dermacentor variabilis 370
Ixodes scapularis 370, 1042
- Japan**
 Aleoerodidae, biological control, *Paecilomyces fumosoroseus* 822
Aphidoletes aphidimyza, distribution 642
Aphis gossypii, biological control, parasitoids 2213
Bacillus thuringiensis, strains 2766
Bursaphelenchus xylophilus, biological control 294
Diplolepis jukudae, parasitoids 1708
 entomophilic nematodes 2389
Erynia delphacis 1359
Frankliniopsis vespiformis 564
Harmonia axyridis 1314
Helicoverpa armigera, biological control, *Trichogramma* 1356
Hemiberlesia pitysophila, biological control, *Coccobius azumai* 1227
 Hymenoptera 76, 1566
 aubergine fields 2220
 cabbage fields 801
Liriomyza trifolii 1320
Mamestra brassicae, biological control, *Trichogramma* 1405
Orius, aubergine fields 1539
 parasitoids 1320
 Brassicaceae habitats 2610
Phthorimaea operculella, biological control, *Copidosoma koehleri* 1646
 Phytoseiidae, pear orchards 173
Plutella xylostella, biological control, *Beauveria bassiana* 1503
Poa annua 57
 biological control, *Xanthomonas campestris* 318
Spodoptera litura, biological control, *Bacillus thuringiensis* subsp. *aiawai* 848
Tenodera angustipennis, rice fields 1436
Tenodera aridifolia, grasslands 1436
Trapa, biological control, insects 2506
Trichogramma, sugarbeet fields 1635
Typhlodromus bambusa, forests 1961
 weeds
 biological control
 ducks 2151
Triops longicaudatus 2507
- Jatropha curcas*, integrated control, Nicaragua 2290
- Jauravia hanifi**
 India 510
 new species 510
 prey, *Rusostigma eugeniae* 510
- Jauravia pallidula**
 prey
Parlatoria orientalis 994
Pseudococcus gilbertensis 994
- Johenrea locustae*, hosts, *Schistocerca cancellata* 669
- Juglans major**, *Rhagoletis juglandis*, USA 221
- Juglans major forests**, *Biosteres juglandis*, USA 221
- Julidae**, predators, *Ocyrops similis* 49
- Junonia coenia*, predators, *Lycosa carolinensis* 1997
- Juvenile hormone I**, toxicity, *Microplitis rufiventris* 463
- Juvenile hormones**, *Chelonus inanitus* 2042
- Kaempferia galanga*, *Meloidogyne incognita* 2115
- Kairomones**, effects, *Bracon brevicornis* 1363
- Kaltenbachiola strobi**
 parasitoids
Aprostocetus strobilanae 972
Platyaster contorticornis 972
Torymus azureus 972
- Kampidromus aberrans**
 behaviour 2022
 cannibalism 2658, 2691
 environmental factors 1200
 feeding behaviour 2023

- Kampimodromus aberrans** cont.
insecticides, nontarget effects 1839
Phytoseiidae, interspecific competition 1313
predators, *Typhlodromus pyri* 2023
prey
 Panonychus ulmi 1313
 Typhlodromus pyri 2023
vineyards, Italy 1839, 2254
- Karpinskiella pityophthori**
hosts, *Pityogenes chalcographus* 2685
swarming 2685
- Keiferia lycopersicella**
biological control
 Trichogramma brassicae 144
 Trichogramma pretiosum 144
- Kenya**
 Chilo partellus, biological control, *Metarhizium anisopliae* 2137
 Fopius ceratitivorus, coffee plantations 2316
 Megalurothrips sjostedti, biological control, *Metarhizium anisopliae* 774
Kermes castaneae, natural enemies 952
Kerria communis, parasitoids, Encyrtidae 878
Kerria lacca
 natural enemies 345
 predators, *Pseudohypatopa pulvereae* 347
- Keys**
 Anagyris 1889
 Homalotylus 1176
 Hydrellia 512
 Phytoseiidae 1891
 Syrphidae, fields, Argentina 1458
 Tachinidae 1887
- Kitasatospora cheerisanensis**, new species 2566
- Kluyvera ascorbata**, antagonism, *Xanthomonas campestris* pv. *campestris* 794
- Kohlrabi**, *Myzus persicae*, India 1509
Kohlrabi fields, beneficial insects, India 1509
- Korea Republic**
 Amblyseius longispinosus, apple orchards 1828
 Bacillus thuringiensis
 soil 1325
 strains 335
 Bacillus thuringiensis subsp. *kurstaki*, strains 2711
 Beauveria 2363
 entomophilic nematodes 2786
 postharvest decay, biological control, *Bacillus* 322
 predatory arthropods, *Pinus thunbergii* forests 947
 Rumex crispus, biological control, *Glomerella cingulata* 403
 Sagittaria, biological control, *Plectosporium tabacinum* 393
 temperate fruits, integrated pest management 2255
 Trapa, biological control, insects 2506
 weeds, rice 393
- Labelling**, *Anaphes iole* 481
- Labena florii**
 hosts
 Chydarteres striatus 1890
 Hedypathes betulinus 1890
 new species 1890
- Labiduridae**, maize fields, Spain 2132
- Lablab**, *Aphis craccivora*, India 777
- Laboulbeniales**, hosts, Diptera 1022
- Lacanobia oleracea**, parasitoids, *Eulophus pennicornis* 2723
- Lachnopus sparsinguttatus**, pathogens, *Beauveria bassiana* 2782
- Lactobacillus**, antagonism, *Fusarium oxysporum* f.sp. *cumini* 321
- Lactococcus**, antagonism, *Fusarium oxysporum* f.sp. *cumini* 321
- Laelius pedatus**, Dermestidae, biological control 2410
- Laetisaria**, antagonism, *Botryodiplodia theobromae* 1900
- Lagenaria sicaria**, *Fusarium oxysporum* f.sp. *lagenariae*, Japan 132
- Lagenidium giganteum**, hosts, *Culex quinquefasciatus* 2427
- Lakes**, Culicidae, Hungary 1747
- Lamachus**
 hosts, *Zeiraphera canadensis* 2371
 Picea glauca forests, Canada 2371
- Lambda-cyhalothrin**
 nontarget effects, *Typhlodromus pyri* 1568
 toxicity, beneficial insects 2538
- Lambdina fiscellaria**
 pathogens
 Entomophaga aulicae 632
 Entomophaga maimaiga 632
- Lambdina fiscellaria fiscellaria**
 Abies balsamea, Canada 301
 parasitoids, *Telenomus alsophilae* 2595
 pathogens, *Leidyana canadensis* 301
- Lantana**, *Ophiomyia lantanae*, Australia 1808
- Lantana camara**
 Bemisia tabaci, Egypt 1411, 1534
 biological control, *Falconia intermedia* 1064
 Ectaga garcia, life cycle 1804
 Hispinae, Australia 421
 natural enemies
 Athemistus howitti 415
 Ichthyodes centurio 415
 Teleonemia scrupulosa 1795
- Lantana camara fields**, *Encarsia formosa*, Egypt 1411
- Lantana montevidensis**, *Ectaga garcia*, life cycle 1804
- Laodelphax striatellus**, pathogens, *Erynia delphacis* 1359
- Larinus minutus**
 food plants
 Centaurea diffusa 1070
 Centaurea maculosa 1070
- Lariophagus distinguendus**
 biology 1725
 environmental factors 1958
 host-seeking behaviour 1266
 hosts
 Sitophilus granarius 1266, 1725
 Sitophilus zeamais 1958
- Lasioseius athiasae**, *Meloidogyne javanica*, biological control 2181
- Lathrolestes luteolator**, hosts, *Protenusa thomsoni* 1680
- Laurus**, *Ceroplastes japonicus*, Italy 968
- Laurus nobilis**, *Ceroplastes japonicus*, Italy 966
- Lawns and turf**
 Coleoptera, Germany 983
 Tipula paludosa, North America 1704
- Learning**
 Ascogaster reticulatus 1286
 Pimpha luctuosa 1259
- Lebanon**, predatory mites 2747
- Lebia grandis**, potato fields, USA 90
- Lecithinase**
 Xenorhabdus bovienii 625
 Xenorhabdus nematophilus 625
- Legislation**, biological control agents, Sweden 2060
- Leidyana canadensis**, hosts, *Lambdina fiscellaria fiscellaria* 301
- Leiophron uniformis**, *Lygus*, biological control 760
- Lema scutellaris**
 feeding 1074
 food plants, *Commelina communis* 1074
- Lemon orchards**
 Cirrospilus, Italy 1600
 natural enemies, India 198
- Lemons**
 Aleurothrixus floccosus, Greece 1612
 Chloropulvinaria psidii, Italy 2271
 Phyllocnistis citrella, Italy 1600, 1611
- Lemyra imparilis**
 pathogens
 Nosema 1916
 Nosema bombycis 1916
- Lepidiotia frenchi**
 biological control, *Metarhizium anisopliae*, Australia 1642
 sugarcane, Australia 1642
- Lepidiotia negatoria**
 biological control, *Metarhizium anisopliae*, Australia 1642
 sugarcane, Australia 1642
- Lepidoptera**
 biological control 1373
 Bacillus thuringiensis subsp. *kurstaki*, Italy 799
 integrated control 11
 leafy vegetables, Italy 799
 Nothofagus, New Zealand 2353
 parasitoids, Hymenoptera 105, 1980
 pathogens
 Ascovirus 2085
 entomophilic nematodes 55
 Heterorhabditis bacteriophora 1946
 Steinernema feltiae 1946
 Steinernema rarium 1946
 predators 1281
 Ficedula hypoleuca 1668
 Vespa vulgaris 2353
- Lepidosaphes ulmi**
 biological control, *Hemisarcoptes coccophagus*, New Zealand 1565
 parasitoids
 Aphytis mytilaspidis 865
 Hemisarcoptes malus 865
- Lepomis**, prey, Chironomidae, Sweden 1766
- Leptinotarsa decemlineata**
 biological control 1373
 Bacillus thuringiensis subsp. *tenebrionis* 785
 USA 92
 Perillus bioculatus 785
 Steinernema carpocapsae, Canada 87
 parasitoids, *Edovum putleri* 497
 pathogens
 Bacillus thuringiensis 1319
 Beauveria bassiana 86, 683, 1238
 potatoes, Canada 87, 785
 predators
 Coleomegilla maculata 88
 Perillus bioculatus 629
- Leptinotarsa defecta**, *Solanum elaeagnifolium*, biological control 2482
- Leptinotarsa texana**, *Solanum elaeagnifolium*, biological control 2482
- Leptocoris chinensis**
 parasitoids 736
 rice, Japan 736
- Leptoglossus phyllopus**
 parasitoids
 Anastatus 2113
 Encyrtidae 2113
 Gryon carinatifrons 2113
 Gryon pennsylvanicum 2113
 predators 2113
- Leptomastidea abnormis**, hosts, *Planococcus citri* 209
- Leptomastix dactylopii**
 hosts, *Planococcus citri* 209
 insecticides, toxicity 1118
 Planococcus citri, biological control 895
- Leptomastix epona**, hosts, *Pseudococcus viburni* 1533
- Leptopharsa gibbicarina**
 biological control, *Crematogaster*, Colombia 2301
 oil palms, Colombia 2301
- Leptophloeus**, *Hypothenemus obscurus*, biological control, USA 1618
- Leptophobia aripa**, broccoli, Mexico 803
- Leptopilina boulardi**
 hosts
 Drosophila 581, 1985
 Drosophila melanogaster 617
 Drosophila simulans 2001
 mating behaviour 581
 oviposition 581
 searching behaviour 1985
- Leptosphaeria nodorum**
 biological control
 Chaetomium cochlioides 2125
 Ulocladium atrum 2125
 wheat 2125
- Leptospora interrogans**
 hosts, *Trichosurus vulpecula* 344
 transmission 344
- Lepteles trigemmatatus**
 biological control, *Bacillus thuringiensis*, Chile 2357
 Prosopis tamarugo, Chile 2357
- Leptothrips cassiae**, orange groves, USA 199

- Leptothrips macroocellatus*, orange groves, USA 199
- Leschenaultia exul*
hosts, *Malacosoma dissitria* 596
oviposition 596
- Lespesia*
broccoli fields, Mexico 803
hosts, *Pieris rapae* 803
- Lespesia archippivora*
hosts, *Maestra configurata* 1887
keys 1887
- Lestodiplosis venusta*
prey, *Psilocorsis quercicella* 1685
Quercus forests, USA 1685
- Lettuces**
Meloidogyne incognita 2194
Sclerotinia sclerotiorum 792
- Leucinodes orbonalis*
aubergines, India 1541
biological control
Bacillus thuringiensis subsp. *kurstaki* 1541
South East Asia 700
parasitoids, *Diadegma apostata* 1529
- Leucoma salicis*, parasitoids, *Trichogramma closterae* 530
- Leuconostoc*, antagonism, *Fusarium oxysporum* f.sp. *cumini* 321
- Leucoptera malifoliella*, pathogens, *Beauveria bassiana* 1210
- Leucoptera spartifoliella*, *Cytisus scoparius*, biological control 2485
- Leucothecium emdenii*
hosts
Aedes aegypti 2422
Anopheles culicifacies 2422
Anopheles stephensi 2422
Anopheles subpictus 2422
Culex quinquefasciatus 2422
- Libya**, *Phoracantha semipunctata*, natural enemies 1684
- Life cycle**
Cirrospilus lyncus 1231
Coniatius tamarisci, France 418
Deraeocoris nebulosus 548
Ectaga garcia, *Lantana* 1804
Harpalus affinis 1317
Hemiptarsenus varicornis 1291
Metaphycus ericeri 2591
Microcharops antiscariae 545
Podisus nigrispinus 1211
Pseudacteon 381
Trichogramma closterae 1213
- Life history**
Amblyseius badryi 2629
Brunoides suturalis 1944
Ceraeochrysa 1918
Chilocorus bipustulatus 1255
parasitoids, reviews 1228
Pardosa agrestis 1218
Pseudoscyrmus tsugae 1914
Pygostolus falcatus 1244
Spilochalcis morleyi 1221
Xanthozona melanopyga 1221
- Life tables**
Eretmocerus eremicus 2586
Hippodamia convergens 2653
- Lilium**
Fusarium proliferatum, Taiwan 306
plant pathogenic fungi, Netherlands 305
- Limnephilus infernalis*, aquatic plants, biological control, USA 437
- Limothrips*, pathogens, *Neozygites parvispora* 670
- Linaria vulgaris*, biological control, *Eteobalea serratella*, USA 2402
- Linepithema humile*
parasitoids, *Pseudacteon* 1282
Thaumetopoea pityocampa, biological control 2369
- Linyphiidae**, cereal fields, Finland 744
- Liophloeus tessulatus*, *Heracleum*, biological control 404
- Liosomaphis berberidis*, predators, *Adalia bipunctata* 676
- Lipaphis erysimi*
parasitoids, *Diaeretiella rapae* 236
pathogens, *Erynia aphidis* 227
predators
Cheilomenes sexmaculata 228, 2588
- Lipaphis erysimi* cont.
predators cont.
Coccinella septempunctata 228, 234, 2588
Coccinella transversalis 2588
Eupeodes 234
rape, India 227, 234, 236
- Liriomyza bryoniae*
biological control, *Diglyphus isaea* 829
tomatoes, Channel Islands 829
- Liriomyza euphorbiae*
food plants
Euphorbia esula 1797
Euphorbia kotschiana 1797
- Liriomyza huidobrensis*
biological control, *Dacnusa sibirica*, Austria 311
ornamental plants, Austria 311
parasitoids
Chrysoscharys phytomyzae 2174
Diglyphus websteri 2174
Ganaspidium 2174
Halticoptera arduine 2174
- Liriomyza sativae*
biological control 531
parasitoids
Diglyphus begini 1485
Opius 2106
vegetables, China 2106
- Liriomyza trifolii*
aubergines, Japan 2220
integrated control, Croatia 1706
Japan 1320
ornamental plants, Croatia 1706
parasitoids 1143
Asecodes erxias 2220
Chrysoscharys pentheus 1702, 2220, 2386, 2614
Chrysonotomomyia 72
Chrysonotomomyia okazaki 1702
Cirrospilus ambiguus 1702
Dacnusa sibirica 1093
Diglyphus albiscapus 2220, 2386
Diglyphus isaea 1093, 2220, 2614
Diglyphus puzosianus 2220
Hemiptarsenus varicornis 72, 1291, 1702, 2614
Hymenoptera 1320
Neochrysoscharys 2220
Neochrysoscharys formosa 1702, 2220, 2386, 2614
Neochrysoscharys okazaki 2220
Oomyzus 2220
Opius 1702
Pnigalio 2220
Quadrastichus 72
Quadrastichus liriomyzae 1702
Phaseolus vulgaris, India 72
predators, *Frankliniopsis vespiformis* 564
- Liris nigra**
host-seeking behaviour 1260
prey, Orthoptera 1260
- Lissorhoptrus oryzophilus*, pathogens, *Beauveria bassiana* 2149
- Listronotus bonariensis*, parasitoids, *Microctonus hyperodae* 1466
- Listronotus oregonensis*, parasitoids, *Anaphes* 2648
- Lüchi**
Comocritis albicapilla, China 1595
Tessaratomia papillosa
China 217, 885
Hong Kong 1613
- Lithocolletis carpinicolella*, parasitoids, *Chrysoscharys laomedon* 2355
- Livestock**, Nematoda, biological control 385
- Lixophaga**
hosts, *Ostrinia nubilalis* 1455
maize fields, USA 1455
- Lixophaga diatraeae*, mass rearing 1870
- Lixus salsolae*, *Salsola kali*, biological control 1807
- Lobesia botrana*, biological control, *Bacillus thuringiensis* 182
- Loboschiza koenigiana*
parasitoids
Apanteles machaeralis 994
Fornicia 994
- Locusta migratoria**
pathogens
Heterorhabditis megidis 2727
Steinernema feltiae 2727
Xenorhabdus bovienii 625
Xenorhabdus nematophilus 625
- Locusta migratoria manilensis*, integrated control, *Nosema locustae*, China 1821
- Locusta migratoria migratorioides*, pathogens, Iridoviridae 1953
- Locusta pardalina*, biological control, *Metarhizium*, Niger 2779
- Lolium perenne**
Ataenius spretulus, USA 2159
Harpalus rufipes 89
- Longevity**
Hymenoptera 1942
Telenomus podisi 1205
- Low volume sprayers**, entomophilic nematodes, application 1508
- Lucerne**
Acyrtosiphon, Australia 2155
Acyrtosiphon pisum, USA 1469
Aphidoidea, Argentina 2156
Lygus, USA 760-761
Lygus hesperus, USA 2157
Otiorynchus ligustici, USA 1468
Tephria arenacearia, Azerbaijan 757
- Lucerne fields**
Braconidae 757
Carabidae, USA 13
Coleoptera, phenology, USA 1469
Hymenoptera, Hungary 1470
Metarhizium anisopliae, dispersal, Denmark 2154
Peristenus, USA 761-762
Peristenus howardi, new species, USA 2157
predatory insects, Hungary 17
- Lucilia cuprina*, pathogens, *Bacillus thuringiensis* 1019
- Ludwigia adscendens*, biological control, Coleoptera 1054
- Lupins**, *Pleiochaeta setosa* 2381
- Lupinus extracts**, nontarget effects, parasitoids 1100
- Lycoriella auripila*
biological control, entomophilic nematodes, UK 2396
mushrooms, UK 2396
pathogens
Heterorhabditis 1232
Steinernema feltiae 1232
- Lycoriella mali*, biological control, *Stratiolaelaps miles*, Northern Ireland 1712
- Lycorina spilonotae*, hosts, *Spilonota lechiaspis* 847
- Lycosa carolinensis**
feeding behaviour 1997
prey, *Junonia coenia* 1997
- Lycosa pseudoannulata*
insecticides, nontarget effects 52
monocrotophos, interactions 47
neem seed extract, nontarget effects 445
prey, *Scirphophaga incertulas* 1459
rice fields
India 52, 1459, 2140
Indonesia 47
- Lycosa vulgaris*, *Citrus* orchards, Pakistan 1592
- Lycosidae**
cereal fields, Finland 744
dimethoate, nontarget effects 1109
Europe 1886
maize fields, Germany 754
phylogeny 1886
prey
Aphididae 754
Cicadellidae 754
Thysanoptera 754
- Lygocoris lucorum*, cotton, China 1661
- Lygus**
biological control
parasitoids 760
Peristenus, North America 9
USA 256
cotton, USA 256
lucerne, USA 760-761
parasitoids
Anaphes iole 481
Peristenus 761

- Lygus hesperus***
lucerne, USA 2157
parasitoids, *Peristenus howardi* 2157
- Lygus lineolaris***
cotton, USA 942
parasitoids, *Peristenus digoneutis* 762
- Lygus pratensis***
biological control, *Bacillus thuringiensis* 919
field crops, Belarus 919
- Lymantria dispar***
biological control
Entomophaga maimaiga
North America, reviews 1663
USA 1360
nuclear polyhedrosis viruses, USA 962-963, 1683
pathogens, USA 289
predatory arthropods, Morocco 288
Ukraine 948
forest trees, USA 962-963
Nosema 2000
nuclear polyhedrosis viruses 2000
parasitoids
Blepharipa pratensis 2359
Brachymeria intermedia 584
Carcelia 2359
Compilura concinnata 2359
Cotesia melanoscela 954, 2359
Ooencyrtus kuvanae 587
Parasetigena silvestris 2359
Phobocampe disparis 2359
pathogens
Entomophaga aulicae 632
Entomophaga maimaiga 290, 632, 963, 969, 2051, 2356, 2359
Nosema 1916
Nosema bombycis 1916
nuclear polyhedrosis viruses 610, 964, 2356
predators
mammals 279
predatory insects 279
Quercus, USA 289-290, 964, 2356
Quercus rubra, Canada 2359
Quercus suber, Morocco 288
Quercus velutina, USA 1683
- Lyonetia clerkella***, parasitoids, Hymenoptera 1566
- Lypha setafacies***
hosts, *Choristoneura fumiferana* 950
Trichogramma minutum, interactions 950
- Lycrus***, hosts, *Dasineura gleditchiae* 313
- Lysaphidius***, hosts, *Myzus persicae* 1530
- Lysiphlebia japonica***
cotton fields, China 1661
parasitoids, *Toxoptera citricida* 549
population dynamics 1661
- Lysiphlebia mirzai***
development 1243
hosts
Melanaphis sacchari 2150
Rhopalosiphum maidis 1243, 1247, 2010
reproduction 1247, 2150
sex ratio 2010
- Lysiphlebus cardui***
biology 1956
hosts, *Aphis fabae* 1100
Lupinus extracts, nontarget effects 1100
- Lysiphlebus confusus***, biology 1956
- Lysiphlebus delhiensis***, hosts, *Melanaphis sacchari* 39
- Lysiphlebus fabarum***
biology 1956
hosts
Aphis craccivora 70
Aphis glycines 70
soyabean extracts, attractants 70
- Lysiphlebus testaceipes***
Aphidoidea, biological control 1538
development 2670
hosts
Aphis gossypii 1530, 1649
Schizaphis graminum 2670
Schizaphis graminum, biological control 746
- Lythrum salicaria***
biological control
Chrysomelidae, North America 1813
Coleoptera, North America 2511
- Lythrum salicaria* cont.**
biological control cont.
Europe 2484
insects, North America 2511
USA 2484
- Macadamia***, *Hypothenemus obscurus*, USA 1618
- Maconellicoccus hirsutus***
parasitoids, *Anagyrus kamali* 2617
predators
Brunoides suturalis 1944
Cryptolaemus montrouzieri 1732
- Macrobrachium borellii***, prey, *Culex pipiens* 349
- Macrocentrus***, habitats, USA 714
- Macrocentrus cingulum***
host-seeking behaviour 745
hosts
Ostrinia furnacalis 745
Ostrinia nubilalis 745
maize fields
China 745
USA 745
population dynamics, maize fields 745
- Macrocentrus grandii***
hosts, *Ostrinia nubilalis* 1455
maize fields, USA 1443, 1455
- Macrocentrus nigridorsis***, hosts, *Choristoneura rosaceana* 2249
- Macrocheles subbadius***, hosts, *Drosophila nigrospiracula* 1328
- Macrolophus caliginosus***
Aleyrodidae
biological control 1709
Belgium 1537
Gerbera greenhouses 1709
pyriproxyfen, toxicity 451
tomato greenhouses
Belgium 1537
Poland 1532
Trialeurodes vaporariorum, biological control, Poland 1532
- Macrophomina phaseolina***
antagonists
Aspergillus flavus 763
Bacillus subtilis 763
Bradyrhizobium 4, 2299
Memnoniella echinata 2299
Paecilomyces lilacinus 2299
Pseudomonas fluorescens 763
Rhizobium 4
Rhizobium trifolii 2299
Stachybotrys atra 2299
Trichoderma 992
Trichoderma hamatum 2211
Trichoderma harzianum 763, 2211, 2299
Trichoderma viride 763, 2211
biological control
Paecilomyces lilacinus 834
Pseudomonas aeruginosa 834
Trichoderma viride, India 1474
chickpeas 763
Piper betle 992
soyabeans, India 1474
- Macrosiphoniella artemisiae***, predators, *Adalia bipunctata* 676
- Macrosiphum creelii***, parasitoids, *Monoctonus nervosus* 1943
- Macrosiphum euphorbiae***
biological control
Aphelinus abdominalis, Switzerland 140
Coccinellidae, Belgium 187
predators 1538
cucumbers 1538
greenhouse crops, Switzerland 140
natural enemies
Araneae 1531
Coccinellidae 1531
Condylostylus erectus 1531
Cycloneda sanguinea 1531
Polybia 1531
Protonectarina 1531
Scymnus 1531
Syrphidae 1531
Vespididae 1531
parasitoids, *Aphelinus abdominalis* 604
pathogens, *Verticillium lecanii* 2622
strawberries, Belgium 187
- Macrosiphum rosae***
pathogens, *Entomophthora* 309
predators
Melanogyna viridiceps 535
Symosyrphus grandicornis 535
- Macrotyloma uniflorum***, *Rhizoctonia solani* 68
- Magnaporthe grisea***
antagonists
Bacillus 722
Campylobacter 1299
Cytophaga 1299
Pseudomonas 722, 1299
Pseudomonas fluorescens 722
biological control 20
Pseudomonas fluorescens 29
India 732
rice 29
wheat 20
- Magnaporthe salvinii***
antagonists
Gliocladium virens 731
Trichoderma harzianum 731
Trichoderma viride 731
rice 731
- Maize**
Busseola fusca, Cote d'Ivoire 1439
Chilo partellus, Kenya 1442
Helicoverpa armigera
Australia 733
Taiwan 44
Mythimna separata 36
Mythimna unipuncta, USA 1452
Ostrinia furnacalis 739
China 745
Ostrinia nubilalis 54
Egypt 1444
Europe 1454
USA 745, 1455
Spodoptera frugiperda 45
Latin America 1433
- Maize fields**
beneficial insects, USA 1443
Carabidae, USA 13, 1449
Coccinellidae, predation, USA 1451
Coleomegilla maculata, USA 1441
Hymenoptera, habitats, USA 1452
Macrocentrus cingulum
China 745
population dynamics 745
USA 745
Mymaridae, seasonal fluctuations, Mexico 1434
Orius insidiosus, USA 1432
parasitoids, USA 1455
predatory arthropods
Germany 754
Spain 2132
Pterostichus, USA 2147
Sinophorus turionus, Europe 1454
- Maize grain**
Coleoptera, Togo 338
parasitoids, USA 340
Prostephanus truncatus, Togo 339
stored products pests 1722
- Maize products**, *Prostephanus truncatus*, Togo 1721
- Maize volatiles**, effects, natural enemies 37
- Malachiidae**, crop fields, Hungary 17
- Malacosoma californicum pluviale***
forest trees, Canada 1671
pathogens, nuclear polyhedrosis viruses 1671
- Malacosoma dissiria***
parasitoids, *Leschenaultia exul* 596
pathogens, nuclear polyhedrosis viruses 1857
- Malacosoma neustria***, pathogens, nuclear polyhedrosis viruses 681, 1952
- Malamoeba locustae***, hosts, *Schistocerca gossypii* 669
- Malathion**
nontarget effects
Anisopteromalus calandreae 1846
Anthonomus grandis 1845
Catolaccus grandis 2537
Scarabaeidae 455
resistance
Anisopteromalus calandreae 1104, 2030
Chrysoperla carnea 2527

- Malathion** *cont.*
toxicity
predatory insects 461, 1123
Suppatus cincticeps 462
- Malaysia**
Aedes aegypti, biological control, *Bacillus thuringiensis* subsp. *israelensis* 1743
Bacillus thuringiensis, *Metisa plana* 923
- Maleic hydrazide**, effects, *Pimpla contemptator* 1840
- Mali**, Orthoptera, biological control, *Beauveria bassiana* 1110
- Mallada astur**
mango orchards, India 877
prey, *Aleurodicus dispersus* 2109
- Mamestra brassicae**
biological control, *Trichogramma*, Japan 1405
parasitoids
Pimpla luctuosa 2682
Trichogramma 1635
pathogens
granulosis viruses 2203
nuclear polyhedrosis viruses 2203
sugarbeet, Japan 1635
- Mamestra configurata**
parasitoids
Athrycia cinerea 1868, 1887
Blondelia 1887
Chetogena claripennis complex 1887
Chetogena tachinoides 1887
Eurithia consobrina 1868, 1887
Exorista mella 1887
Lespesia archippivora 1887
Panzeria ampelus 1887
Phryxe pecosensis 1887
Phryxe vulgaris 1887
Spallanzania hebes 1887
Winthemia quadripustulata 1887
Winthemia rufopicta 1887
pathogens
Bacillus thuringiensis subsp. *canadensis* 336
Bacillus thuringiensis subsp. *kenyae* 336
Bacillus thuringiensis subsp. *kurstaki* 336
- Mammals**, prey, *Lymantria dispar* 279
- Man**, safety, *Bacillus thuringiensis* 2753
- Mancoze**
nontarget effects
Beauveria brongniartii 1115
Orthotydeus lambi 1563
Trichoderma 1096
Trichogramma cacaeciae 2535
Typhlodromus pyri 1124
- Mandarin orchards**, predatory insects, India 1596
- Mandarins**, Homoptera, India 1596
- Manduca sexta**
parasitoids, *Cotesia congregata* 2717
pathogens
Xenorhabdus bovienii 625
Xenorhabdus nematophilus 625
predators, *Cotesia congregata* 2009
- Mango extracts**, nuclear polyhedrosis viruses, interactions 2074
- Mango orchards**, beneficial insects, India 877
- Mangoes**
Aulacaspis tubercularis, South Africa 893
Chloropulvinaria polygonata, India 877
Drosicha mangiferae 1590
integrated pest management 1606
Rhytidodera bowringii, China 205
Tephritidae, Brazil 891
Thrips palmi, Japan 889
- Manihot glaziovii**, *Phenacoccus manihoti* 2189
- Mantidae**
lemon orchards, India 198
prey
Chilades lajus 198
Papilio demoleus 198
- Marasimia trapezalis**
parasitoids, *Chelonus* 2135
Pennisetum glaucum, India 2135
- Maravalia cryptostegiae**, *Cryptostegia grandiflora*, biological control, Australia 2493
- Marietta leopardina**, oils, nontarget effects 213
- Marpissa tigrina**, prey, *Proutista moesta* 2740
- Marrows**, *Aphis gossypii*, France 135
- Marshes**, Chironomidae, France 2434
- Marsilea**, biological control, *Rhynchosporium alismatis* 2502
- Marsupiostrongylus minesi**, hosts, *Trichosorus caninus* 1729
- Maruca vitrata**
pathogens
cytoplasmic polyhedrosis viruses 1365
granulosis viruses 472
- Mass production**
Bacillus subtilis 2548
entomogenous fungi 1160
- Mass rearing**
biological control agents 1169
books 1397
Biosteres arisanus 1883
Lixophaga diatraeae 1870
nuclear polyhedrosis viruses 106
Trichogramma 489, 1154, 1867
- Mating behaviour**
Adalia bipunctata 1264
Chrysopa pallens 2012
Leptopilina boulandi 581
natural enemies 1283
Orius sauteri 1288
Pimpla contemptator 2020
- Matricaria perforata**, biological control, *Omphalopion hookeri*, Canada 1796
- Matsucoccus feytaudi**
Pinus 2367
predators
Dufouriellus ater 2367
Elatophilus nigricornis 2367
Elatophilus pini 2367
- Matsucoccus matsumurae**
predators
Exochomus mongol 671
Harmonia axyridis 671
Iridomyrmex anceps 671
Polyrhachis dives 671
Sticholotus punctata 671
- Matsucoccus thunbergianae**, predators, *Ara-nae* 947
- Mauritius**, *Plutella xylostella*, biological control, *Bacillus thuringiensis* 104
- Medetera**, prey, Scolytidae 2346
- Megadromus antarcticus**, prey, *Spodoptera litura* 2215
- Megalurothrips sjostedti**
biological control, *Metarhizium anisopliae*, Kenya 774
cowpeas, Kenya 774
pathogens
Beauveria bassiana 1209, 2599
Metarhizium anisopliae 1209, 2599
Paecilomyces fumosoroseus 1209
Verticillium lecanii 1209
- Megalurothrips usitatus**, predators, *Orius maxidentex* 2302
- Megaphragma amalphanum**
distribution, Italy 1940
hosts, *Heliothrips haemorrhoidalis* 1940
- Megaphragma mymaripenne**
distribution, Italy 1940
hosts, *Heliothrips haemorrhoidalis* 1940
- Megaselia halterata**
pathogens
Heterorhabditis 1232
Steinernema feltiae 1232
- Melaleuca quinquenervia**
biological control
Botryosphaeria ribis, USA 2494
Eucercocoris suspectus, Australia 2470
USA 424
- Melampsora**
Euphorbia heterophylla, biological control 398
weeds, biological control 2459
- Melampsora epitea**, hyperparasites, *Sphaerellopsis filum* 1677
- Melanagromyza albicilia**
food plants, *Convolvulus arvensis* 1071
- Melanagromyza albicilia** *cont.*
Slovakia 1071
- Melanaphis indosacchari**, parasitoids, *Cheilomenes sexmaculata* 2606
- Melanaphis sacchari**
parasitoids
Cheilomenes sexmaculata 2606
Lysiphebia mirzai 2150
Lysiphebia delhiensis 39
- Melangyna viridiceps**, prey, *Macrosiphum rosae* 535
- Melanoplus sanguinipes**
grasslands, USA 1003
pathogens
Beauveria bassiana 1908
Entomopoxvirus 2714
Metarhizium flavoviride 1908
predators, *Schizocosa* 1003
- Melichares mali**, apple stores, Poland 1715
- Meligethes aeneus**
biological control
Bacillus thuringiensis 919
Metarhizium anisopliae 916
field crops, Belarus 919
parasitoids
Phradis interstitialis 2297
Phradis morionellus 2297
Tersilochus heterocerous 2297
rape, Germany 2297
- Melitaea cinxia**
host-seeking behaviour 1287
parasitoids
Cotesia melitaeorum 634, 1287
Hyposoter horticola 634
- Meloidogyne**
biological control 2728
Paecilomyces lilacinus 247
Pasteuria penetrans 809, 991, 1386, 1388
reviews 2117
Streptomyces saraceti, Taiwan 215
coffee 247
Gardenia jasminoides 991
guavas, Taiwan 215
nematophagous fungi
Arthrobotrys dactyloides 148
Verticillium chlamydosporium 148
- Meloidogyne incognita**
antagonists, vesicular arbuscular mycorrhizas 2789
aubergines 149, 835, 2233
biological control
bacteria 2194
Glomus deserticola 154
Glomus fasciculatum 2115, 2224
Glomus mosseae 835
Mononchoides longicaudatus 152
nematophagous fungi 188, 2223, 2233
Paecilomyces lilacinus 150, 160, 835, 2116, 2226, 2231, 2286, 2323, 2401
Pasteuria penetrans 150-151, 154, 158, 789, 2191, 2229
Trichoderma harzianum 149
Verticillium chlamydosporium 151, 2225
fruit vegetables 2224
grapes 188
Kaempferia galanga 2115
nematophagous fungi
Aspergillus niger 16
Beauveria bassiana 153, 557
Fusarium oxysporum 16
Monacrosporium 2453
Paecilomyces lilacinus 16, 153, 2222
Trichoderma harzianum 2227, 2637
Trichoderma koningii 2637
Verticillium chlamydosporium 108
Verticillium lecanii 146
Pasteuria penetrans, interactions 2642
papaws 2286
Piper beetle 2323, 2401
sweet potatoes 789, 2191
tomatoes 146, 150-154, 158, 160, 2223, 2225-2227, 2229, 2231
vegetables 2194
- Meloidogyne javanica**
biological control
antagonists 2232
Mesostigmatidae 2181

Meloidogyne javanica cont.

- biological control cont.
- nitrogen fixing bacteria 78
- Paecilomyces lilacinus* 145, 248, 834
- Pasteuria penetrans* 156
- Pleurotus ostreatus* 1389
- Pseudomonas aeruginosa* 834, 2180
- Capsicum annuum* 2232
- mung beans 78
- nematophagous fungi
- Acromonium butyri* 159
- Arthrobotrys dactyloides* 147, 1336
- Arthrobotrys haptotyla* 1336
- Arthrobotrys thauasia* 1336
- Cochliobolus pallescens* 560
- Curvularia* 560
- Paecilomyces fumosoroseus* 2645
- Paecilomyces lilacinus* 159, 2655
- Phoma glomerata* 560
- Trichoderma harzianum* 159, 2637
- Trichoderma koningii* 2637
- Pasteuria penetrans*, interactions 157
- pathogens, *Bacillus* 2638
- Phaseolus vulgaris* 2181
- tobacco 248
- tomatoes 145, 156-157, 159
- Vigna radiata* 2180

Meloidogyne mayaguensis

- biological control, *Arthrobotrys oligospora*, Senegal 2228
- tomatoes, Senegal 2228
- Melolontha hippocastani*, biological control, *Beauveria brongniartii*, Europe 648
- Melolontha melolontha*
- barley, Austria 2133
- biological control
- Beauveria brongniartii*
- Austria 2133
- Europe 648
- Heterorhabditis bacteriophora* 983
- lawns and turf, Germany 983
- pathogens, *Steinernema glaseri* 2710

Melons

- Aphelinus gossypii*, development 1544
- Aphis gossypii*, France 135
- Bemisia argentifolii*, USA 1545
- Erwinia carotovora* subsp. *carotovora* 113
- Fusarium* 126
- Fusarium oxysporum* f.sp. *melonis* 114

Membrotithrips indicus

- Piper betle*
- biological control, Acari, India 2315
- India 2315

Memnoniella echinata

- antagonism
- Fusarium solani* 2299
- Macrophomina phaseolina* 2299
- Rhizoctonia solani* 2299

Menochilus

- cotton fields, India 1659
- sex pheromones, nontarget effects 1659

Mermithidae, hosts, *Blattella germanica*

- 2440
- Mesoclanis polana*, *Chrysanthemoides monilifera*, biological control, Australia 2471

Mesocomya aegeriae

- hosts, *Dendrolimus tabulaeformis* 505
- new species 505

Mesocyclops aspericornis

- Polynesia 1740
- prey, *Aedes polynesiensis* 1740

Mesocyclops longisetus, *Aedes aegypti*, biological control, Mexico 361, 1010**Mesocyclops rutneri**, prey, *Aedes aegypti*

- 1006
- Mesocyclops thermocyclopoides*, prey, *Aedes aegypti* 1006

Mesocyclops woutersi, prey, *Aedes aegypti*

- 1006
- Mesopolobus**

hosts

- Dasineura gleditchiae* 313
- Trupanea wheeleri* 1967
- Mesopolobus diffinis*, hosts, *Taxomyia taxi*, UK 1672

Metalaxyl, nontarget effects, *Beauveria brongniartii* 1115**Metaphycus**, hosts, *Cribroleanium andersoni* 1604**Metaphycus ericri**

- China 2591
- hosts, *Ericerus pela* 2591
- life cycle 2591

Metaphycus flavus

- hosts, Coccoidea 883
- Turkey 883

Metaphycus hageni

- hosts, *Saissetia oleae* 2306
- new species 2306

Metaphycus helvolus

- hosts, *Saissetia oleae* 918
- mango orchards, India 877
- olive orchards, Greece 918

Metaphycus stanleyi

- Citrus orchards, USA 208
- hosts, *Coccus hesperidum* 208
- sex ratio 208

Metarhizium

- Acrotylus blondeli*, biological control, Niger 2779
- Dermolepida albobirtum*, biological control 1636
- insects, nontarget effects 2771
- Locusta pardalina*, biological control, Niger 2779
- Pyrgomorpha cognata*, biological control, Niger 2779

Metarhizium anisopliae

- Acridoidea, biological control 1366
- Boophilus microplus*, biological control 1036
- Camponotus compressus*, biological control 2451
- Chilo partellus*, biological control, Kenya 2137
- chitinase 2045
- Cornitermes cumulans*, biological control, Brazil 2517
- culture techniques 1879
- Delia*, biological control 805
- dispersal, crop fields, Denmark 2154
- dyes, toxicity 2773
- entomophilic nematodes, interactions 2730
- enzymes 2038
- formulations 1358, 2602
- growth 1214
- Hieroglyphus daganensis*, biological control 2547
- hosts

- Anomala cuprea* 447
- Bactrocera tryoni* 538
- Blattella germanica* 1044, 2440, 2442
- Boophilus microplus* 1779, 2444
- Camponotus compressus* 2573
- Carabidae 2154
- Castnia penelope* 212
- Chilo partellus* 1939
- Curculionidae 2154
- Delia radicum* 2200
- Diaprepes abbreviatus* 466
- Galleria mellonella* 1303
- Glossina fuscipes fuscipes* 367
- Glossina longipennis* 367
- Glossina morsitans centralis* 1765
- Glossina morsitans morsitans* 1765
- Glossina pallidipes* 367
- Helicoverpa armigera* 1381
- Holotrichia consanguinea* 1934
- Megalurothrips sjostedti* 1209, 2599
- Odoiporus longicollis* 1591
- Papuana huebneri 210
- Pentalonia nigronervosa* 2394
- Phaedon cochleariae* 796, 1499
- Plocaederus ferrugineus* 2291
- Popillia japonica* 2542
- Rhipicephalus sanguineus* 1774, 1783
- Schistocerca gregaria* 2779
- Sitona lineatus* 2170, 2730
- Staphylinidae 2154
- Triatoma infestans* 1769
- Hypera postica*, biological control 2080
- imidacloprid, nontarget effects 466
- insect pests, biological control, Australia 1642
- insecticides
- compatibility 2442
- toxicity 458, 1105
- Isopoda, biological control, Australia 1368

Metarhizium anisopliae cont.

- Megalurothrips sjostedti*, biological control, Kenya 774
- Meligethes aeneus*, biological control 916
- New Zealand 720
- nontarget effects, mice 2755
- Rhammatocerus schistocercoides*, biological control, Colombia 1408
- solar radiation, effects 1358
- Toxoptera citricidus*, biological control, USA 2269
- Trialeurodes vaporariorum*, biological control 2103
- Metarhizium anisopliae** var. *acridum*
- hosts, *Schistocerca gregaria* 2039
- nontarget effects, beneficial arthropods 1847
- Oedaleus senegalensis*, biological control, Niger 2772
- Orthoptera, biological control 441
- Metarhizium anisopliae** var. *anisopliae*, hosts, *Spodoptera exigua* 1234
- Metarhizium flavoviride**
- Beauveria bassiana*, interactions 1908
- hosts
- Melanoplus sanguinipes* 1908
- Nephotettix virescens* 2134
- Oedaleus senegalensis* 571
- Rhammatocerus schistocercoides* 1640
- storage 2598
- temperature 2598
- Metaseiulus occidentalis**
- prey, *Phytonemus pallidus* 862
- Tetranychus urticae*, biological control 257
- Metcalfa pruinosa**
- biological control
- Neodryinus typhlocybae* 2351
- Croatia 1404
- France 2082
- Italy 717
- Meteorus communis**
- habitats, maize fields, USA 1452
- hosts, *Mythimna unipuncta* 1452
- Meteorus versicolor**
- hosts, *Tephria arenacearia* 757
- lucerne fields 757
- Methamidophos**
- nontarget effects
- beneficial arthropods 942
- Diglyphus isaea* 1098
- Scarabaeidae 455
- toxicity, Coccinellidae 1111
- Methomyl**
- nontarget effects
- beneficial arthropods 2277
- Diglyphus isaea* 1098
- parasitoids 1835
- predatory arthropods 1658
- toxicity
- Coccinellidae 1111
- Diadromus collaris* 1112
- Oomyzus sokolowskii* 450
- Methoprene**, nontarget effects, *Stratiolaelaps miles* 1712
- Methoxychlor**, toxicity, *Adalia bipunctata* 1829
- Metisa plana**, pathogens, *Bacillus thuringiensis*, Malaysia 923
- Metopophium dirhodum**
- parasitoids
- Aphelinus abdominalis* 604
- Aphidius rhopalosiphii* 743
- Aphidius uzbekistanicus* 50
- Dendrocerus carpenteri* 50
- Praon volucre* 743
- predators
- Carabus violaceus* 1414
- Harpalus rufipes* 1414
- Nebria brevicollis* 1414
- Pterostichus cupreus* 1414
- Pterostichus madidus* 1414
- Pterostichus melanarius* 1414
- Trachusa ruricola* 1414

Mexico

- Aedes aegypti*, biological control, *Mesocyclops longisetus* 361, 1010
- Anastrepha* 953

Mexico *cont.*

- Anopheles pseudopunctipennis*, biological control, *Romanomermis iyengari* 2420, 2424
- beneficial insects, broccoli fields 803
- Boophilus microplus*, biological control 1780
- Haemonchus contortus*
biological control 375
Duddingtonia flagrans 1049
- Hymenoptera
Citrus aurantifolia orchards 206
forests 953
- Hypothenemus hampei*, biological control, Bethyridae 2317
- Mymaridae, seasonal fluctuations, fields 1434
- Nematoda, biological control 1027
- parasitoids, diversity, orchards 1615
- Spodoptera frugiperda*, biological control, nuclear polyhedrosis viruses 1433
- Mice**, *Metarhizium anisopliae*, nontarget effects 2755
- Michelia champaca*, *Aleurodicus dispersus*, India 2109
- Micraspis vineta*, prey, *Spodoptera litura* 1188
- Microbial pesticides**
arthropod pests, biological control 2439
formulations 664, 1137, 2069, 2545
books 1398
- Hylobius abietis*, biological control, UK 1688
- Microcharops anticarsiae*, life cycle 545
- Microchironomus deribae*
marshes, France 2434
pathogens, *Bacillus thuringiensis* subsp. *israelensis* 2434
- Micrococcus luteus*
antagonism, *Glomerella cingulata* 1643
hosts, *Curculio nucum* 1617
- Microctonus hyperpoda*, hosts, *Listronotus bonariensis* 1466
- Microdus tumidulus*, *Gypsonoma aceriana*, biological control, Bulgaria 2352
- Microgaster*, new geographic records, China 2057
- Micromelalopha troglodyta*, parasitoids, *Trichogramma closterae* 530
- Micromus tasmaniae**
insecticides, nontarget effects 448
temperate fruit orchards, New Zealand 846
- Microplana termitophaga*, prey, *Odontotermes transvaalensis* 598
- Microplitis**
cotton fields, China 1661
population dynamics 1661
- Microplitis croceipes**
Bacillus thuringiensis, effects 2330
Heliothis virescens, biological control, USA 2330
host-seeking behaviour 2672
thiodicarb, effects 2330
- Microplitis mediator*, hosts, *Mythimna separata* 1936
- Microplitis rufiventris**
growth regulators, toxicity 463
hosts, *Spodoptera littoralis* 463, 1252, 2704
- Microspora**, new geographic records, Ukraine 362
- Microsporidium phytoseuii**, hosts, *Phytoseuius persimilis* 1981
- Microterys hunanensis**
China 2563
hosts, Coccidae 2563
new species 2563
- Microvelia douglasi atroleineata**, insecticides, toxicity 1128
- Microvelia horvathi**
agricultural chemicals, nontarget effects 2534
development 519
prey
Nilaparvata lugens 519
Sogatella furcifera 519
- Milbemectin**, toxicity, *Diglyphus isaea* 2528
- Mimetidae**, predators, *Trypoxylon politum* 2780

- Mimosa invisa**, biological control, South Pacific 10
- Mimosa pigra**
biological control
Carmentis mimosa, Australia 1059
Chalcodermus persimilis 408
Chalcodermus serripes 2476
Neurostrotia gunniella, Australia 1066
- Mineral oils**
effects
Chrysoperla carnea 1834
Trichogramma chilonis 1834
nontarget effects, *Amblyseius andersoni* 870
toxicity, *Ageniaspis citricola* 1608
- Miridae**
Heracleum, biological control 404
maize fields, Spain 2132
parasitoids, Braconidae 2370
pear orchards
France 2056
Spain 854
potato fields, USA 2193
predators
Aeolothrips intermedius 831
Aptus mirmicoides 831
Nabis ferus 831
Nabis punctatus 831
Orius majusculus 831
Orius niger 831
Scolothrips longicornis 831
Seiulus finlandicus 831
Stethorus punctillum 831
Tydeidae 831
Zetzellia mali 831
- prey
Cacopsylla pyri 854
Empoasca fabae 2193
- Misumenops oblongus**, predators, *Sceliphron caementarium* 2780
- Misumenops tricuspidatus**
insecticides, nontarget effects 857
pear orchards, Czech Republic 857
- Models**
Bacillus thuringiensis, application 2368
Bacillus thuringiensis subsp. *israelensis*, persistence 1140
biological control 1854
prediction 2087
weeds 432
- biological control agents
climate 2054
population dynamics 471
Carduus nutans, biological control 432
Chilocorus kuwanae, development 566
Choristoneura fumiferana, biological control 479
Diaeretiella rapae, host-seeking behaviour 595
entomopathogens, dispersal 2733
Ephestia kuehniella, biological control, Denmark 2408
Euphorbia esula, biological control 2491
Heterobasidion annosum, biological control 291
Heterorhabditis, behaviour 2659
Hieroglyphus daganensis, biological control 2547
host parasite relationships 482
Otiorynchus sulcatus, biological control, *Heterorhabditis* 485
parasitoids, reproduction 1957
Phytoseiulus persimilis, biological control, *Tetranychus urticae* 2388
predation 2729
predator prey relationships 2743
Telenomus busseolae, host-seeking behaviour 1279
Trybliographa rapae, searching behaviour 1278
Venturia canescens, feeding behaviour 2699
- Molecular genetics**, *Anisopteromalus calandrae* 1846
- Moldova**
Aphidoletes aphidimyza, greenhouses 310
Aulacorthum solani, *Aphidoletes aphidimyza*, biological control 310
Harpalus affinis, steppes 1317
- Molecular biology**
biological control 2062

- Molecular biology** *cont.*
Gliocladium, books 697
Trichoderma, books 697
- Molecular genetics**
Anisopteromalus calandrae 2030
Bacillus sphaericus 1750
Cryphonectria parasitica 2707
Trichoderma harzianum 2708
Venturia canescens 2036
Verticillium 2027
- Monacrosporium**, hosts, *Meloidogyne incognita* 2453
- Monacrosporium gephyropagum**, *Strongyloides papillosus*, biological control 379
- Monellia caryella**, pecans, USA 910
- Mongolia**, *Harmonia axyridis* 1314
- Monilinia fructicola**
antagonists
Rhodotorula 330
Trichoderma atroviride 330
Trichoderma viride 330
biological control, *Cryptococcus infirmominutus* 329
cherries 329
stone fruits 330
- Monitoring**
natural enemies, apple orchards 1562
Trichogramma
sticky traps 484
Taiwan 1639
- Monochamus alternatus**
biological control, *Beauveria bassiana* 2344
natural enemies 1696
- Monochoria australasica**, natural enemies, *Eccritotarsus catarinensis* 1081
- Monochoria cyanea**, natural enemies, *Eccritotarsus catarinensis* 1081
- Monochoria vaginalis**
biological control, fungi 2460
natural enemies, *Eccritotarsus catarinensis* 1081
- Monocrotophous**
compatibility, *Bacillus thuringiensis* 1842
Lycosa pseudoannulata, interactions 47
nontarget effects
Beauveria brongniartii 1115
Coccinella septempunctata 2533
parasitoids 1089
Rhynocoris 452
Rhynocoris kumarii 2529
Trichogramma pretiosum 459
toxicity, *Rhynocoris fuscipes* 464
- Monoctonus nervosus**
hosts
Acyrtosiphon pisum 1943, 2657
Macrosiphum creelii 1943
Myzus persicae 1943
Sitobion avenae 1943
- Monodontomerus dentipes**, hosts, *Diprion similis*, USA 1673
- Monographella nivalis**, antagonists, *Pseudomonas chlororaphis* 35
- Monomorium pharaonis**
functional responses 2049
prey, *Nilaparvata lugens* 2049
- Mononchoides longicaudatus**, *Meloidogyne incognita*, biological control 152
- Mononychellus tanajoa**
predators
Amblyseius citrifolius 1193
Typhlodromalus manihoti 1492
- Morchella habitata**, Acari, new geographic records, Turkey 1714
- Moringa oleifera**
Gitona distigma, India 1819
integrated pest management 1819
Streblote siva, India 2348
- Morocco**
Frankliniella occidentalis, biological control, *Beauveria bassiana* 709
Lymantria dispar
biological control, predatory arthropods 288
Quercus suber 288
- Morphology**
Frankliniopsis vespiformis 564
Harmonia axyridis 1968
- Mortality**, predatory insects 1945
- Moulting hormones**, *Cotesia congregata* 1306

- Mouthparts**, parasitoids 1241-1242
- Movement**
- Hippodamia convergens* 602
- Phytoseiulus persimilis* 1294
- predatory arthropods, fields, USA 267
- Steinernema*, soil 588
- Mozena obtusa**
- food plants, *Prosopis glandulosa* var. *glandulosa* 416
- parasitoids
- Anastatus semiflavus* 416
- Gryon atrum* 416
- Ooencyrtus johnsoni* 416
- Trichopoda pennipes* 416
- population dynamics, USA 416
- predators
- Arilus cristatus* 416
- Climaciella brunnea* 416
- Mucor**, antagonism, *Sclerotinia sclerotiorum* 1344
- Mucor piriformis**, biological control, *Rhodotorula glutinis* 165
- Mulberries**
- Parabemisia myricae*, Turkey 1610
- Phloeospora maculans*, Japan 1557
- Mulberry orchards**, *Eretmocerus debachi*, Turkey 1610
- Multipurpose trees**, insect pests, natural enemies, India 277
- Mung beans**, *Meloidogyne javanica* 78
- Murgantia histrionica**
- parasitoids
- Ooencyrtus johnsoni* 6
- Trissolcus murgantiae* 6
- Murichirus anabiotus**, *Trichosurus* 1730
- Musca domestica**
- biological control
- Muscidifurax* 1023
- parasitoids 1021, 1039
- Sweden 369
- parasitoids
- Aleochara* 2436
- Aleochara notula* 1759
- Aleochara puberula* 1759
- Coptera haywardi* 1161
- Dirhinus himalayanus* 1161
- Eucoilidae* 1759
- Muscidifurax raptor* 1018, 2436
- Muscidifurax raptorellus* 363, 1767
- Nasonia vitripennis* 1767, 2436
- Pachycrepoides vindemmiae* 2436
- Phygadeuon fumator* 2436
- Spalangia cameroni* 1759, 2436
- Spalangia endius* 1018, 1759
- Spalangia gemina* 1161, 1759
- Spalangia nigripes* 2436
- Spalangia nigroaenea* 366, 1759
- Spalangia subpunctata* 2436
- Trichomalopsis sarcophagae* 364
- Trichopria* 2436
- Urolepis rufipes* 2436
- pathogens
- Bacillus thuringiensis* 1019
- Entomophthora muscae* 1020
- Heterorhabditis bacteriophora* 1760
- Heterorhabditis megidis* 365, 1760
- Steinernema carpocapsae* 1760
- Steinernema feltiae* 365, 1760-1761
- Steinernema scapterisci* 1760
- Verticillium fusisporum* 1949
- Verticillium lamellicola* 1949
- Verticillium lecanii* 1949
- Verticillium psalliotae* 1949
- Muscidifurax**, Muscidae, biological control 1023
- Muscidifurax raptor**
- cuticle 1297
- hosts
- Musca domestica* 1018, 2436
- Stomoxys calcitrans* 2436
- Muscidifurax raptorellus**
- cuticle 1297
- hosts, *Musca domestica* 363, 1767
- hydrocarbons, poultry farms, USA 1767
- Muscidifurax zaraptor**
- cuticle 1297
- hosts, *Sarcophaga bullata* 1017
- Muscidae, biological control 1021
- Mushrooms**, *Lycoriella auripila*, UK 2396
- Mutants**
- Bacillus thuringiensis* 2709
- Mutants cont.**
- nuclear polyhedrosis viruses 1296
- Mycocentrospora acerina**, *Viola arvensis*, biological control 2490
- Mycorrhizas**
- biological control, reviews 2067
- Poa annua*, biological control 2390
- Mycosphaerella fijiensis**
- antagonists, *Bacillus* 195
- bananas 195
- Mycosphaerella graminicola**
- biological control
- Chaetomium cochlioides* 2125
- Ulocladium atrum* 2125
- wheat 2125
- Mycotoxins**, *Striga hermonthica*, interactions 2513
- Myiocnema comperei**, hosts, *Planococcus citri* 209
- Myiabras pustulata**, biological control, *Rhyacionis marginatus* 1660
- Mylocerus viridanus**, predators, *Olios* 994
- Mymaridae**
- Buchloe dactyloides* habitats, USA 982
- hosts, *Nilaparvata lugens* 1457
- rice fields, China 1457
- seasonal fluctuations, fields, Mexico 1434
- Mymarothrips garuda**
- Piper beetle*
- biological control, Acari, India 2315
- India 2315
- Myrica faya**, pathogens, *Septoria hodgesii* 1790
- Myriophyllum spicatum**, biological control, USA 424
- Myrmeleotettix palpalis**, biological control, *Nosema locustae*, China 758
- Myrmica rubra**, prey, *Acrolepiopsis assectella* 2202
- Myrothecium roridum**, antagonism, *Venturia inaequalis* 2236
- Mythimna separata**
- maize 36
- parasitoids
- Apanteles kariyai* 36, 1217, 1435
- Brachymeria lasus* 1933
- Compsilura* 1378
- Cotesia ruficornis* 1378
- Exorista xanthaspis* 1378
- Goryphus* 1378
- Microplitis mediator* 1936
- Pimpla luctuosa* 1259
- Pseudogonia* 1378
- pathogens
- Bacillus thuringiensis* 1954
- Entomopoxvirus* 1217
- granulosis* viruses 2613
- Nosema* 1916
- Nosema bombycis* 1916
- predators, *Cotesia ruficornis* 2605
- Mythimna unipuncta**
- biological control, *Bacillus thuringiensis*, USA 2144
- maize, USA 1452
- parasitoids
- Camptetis* 1452
- Euplectrus mellipes* 1452
- Glyptapanteles militaris* 1202, 1452, 2652
- Ichneumon* 1452
- Meteorus communis* 1452
- Therion sassacus* 1452
- reproduction 2652
- Myzus cerasi**
- predators
- Aphidoletes aphidimyza* 2354
- Cecidomyiidae* 2354
- Coccinellidae* 2354
- Syrphidae* 2354
- Myzus persicae**
- biological control, *Coccinella septempunctata*, Romania 825
- Brassica pekinensis* 1984
- greenhouse crops, Switzerland 140
- kohlrabi, India 1509
- natural enemies
- Araneae* 1531
- Coccinellidae* 1531
- Condylostylus erectus* 1531
- Cycloneda sanguinea* 1531
- Myzus persicae cont.**
- natural enemies cont.
- Polybia* 1531
- Protonectarina* 1531
- Scymnus* 1531
- Syrphidae* 1531
- Vespidae* 1531
- parasitoids
- Aphidius colemani* 1258, 1509, 2005
- Aphidius matricariae* 529, 1509
- Diaeretiella rapae* 236, 1509, 1530, 1975
- Ephedrus plagiator* 1509
- Lysaphidius* 1530
- Monoctonus nervosus* 1943
- pathogens
- Beauveria bassiana* 1925, 2782
- Erynia anhuiensis* 640, 1984
- Erynia aphidis* 227
- Erynia radicans* 1941
- Pandora delphacis* 2607
- Pandora neoaphidis* 1877, 2607
- Verticillium fusisporum* 1949
- Verticillium lamellicola* 1949
- Verticillium lecanii* 1949
- Verticillium psalliotae* 1949
- potatoes, USA 786
- predators
- Allothrombium ovatum* 705
- Cheilomenes sexmaculata* 518, 1509
- Coccinella septempunctata* 234, 786, 1509
- Coccinella transversalis* 1509
- Coccinella undecimpunctata* 544
- Coleomegilla maculata* 786
- Episyrphus balteatus* 1509
- Eupeodes* 234
- Eupeodes confrater* 1509
- Ischiodon scutellaris* 1509
- Theridion impressum* 2308
- rape, India 227, 234, 236
- Nabidae**
- crop fields, Hungary 17
- maize fields, Spain 2132
- Nabis**
- cotton fields, Spain 944
- prey, *Helicoverpa zea* 1483
- soyabean fields, USA 770
- Nabis americoferus**, prey, *Acyrtosiphon pisum* 572
- Nabis brevis**
- grasslands, Germany 2160
- prey, *Notostira elongata* 2160
- Nabis ferus**
- crop fields, Bulgaria 713
- cucumber fields, Hungary 831
- prey
- Miridae* 831
- Tetranychus turkestanii* 713
- Tetranychus urticae* 713, 831
- Thrips tabaci* 831
- Nabis pseudoferus**
- grasslands, Germany 2160
- prey, *Notostira elongata* 2160
- Nabis punctatus**
- cucumber fields, Hungary 831
- prey
- Miridae* 831
- Tetranychus urticae* 831
- Thrips tabaci* 831
- Nabis roseipennis**
- prey, *Chrysodeixis includens* 771
- searching behaviour 573
- soyabeans, resistance 771
- Nabis viridulus**, prey, *Coniatus tamarisci* 418
- Nanophyes**, *Trapa*, biological control, Asia 2506
- Nanophyes nigrutulus**, *Ludwigia adscendens*, biological control 1054
- Naricus cinctiventris**, food plants, *Acacia implexa* 414
- Nasonia vitripennis**
- hosts
- Musca domestica* 1767, 2436
- Sarcophaga bullata* 1017
- Stomoxys calcitrans* 2436
- hydrocarbons, poultry farms, USA 1767
- Nassella trichotoma**
- biological control, Australia 62, 422
- pastures, Australia 62

- Nasutitermes exitiosus*, biological control, *Metarhizium anisopliae*, Australia 1368
- Natural enemies**
apple orchards, Russia 1562
Cacopsylla pyri, biological control, France 844
Celtisaspis zhejiangana, biological control, China 298
entomophilic nematodes, reviews 2647
extension 1361
field crop fields 2341
insect pests, biological control, Russia 1502
maize volatiles, effects 37
monitoring, apple orchards 1562
multipurpose trees, insect pests, India 277
pesticides, nontarget effects 1113
rearing techniques 1864
soyabean fields, USA 770
stored products pests, integrated control, reviews 2406
- Neastymachus*, hosts, *Cribrolecanium andersoni* 1604
- Nebria brevicollis*
prey
Brevicoryne brassicae 1414
Metopolophium dirhodum 1414
Rhopalosiphum padi 1414
Sitobion avenae 1414
- Nectria radicola*
antagonists
Trichoderma harzianum 2361
Trichoderma viride 2361
Pinus sylvestris 2361
- Neem extracts**
compatibility, *Bacillus thuringiensis* 1842
toxicity
Amblyseius 2530
Chrysoperla carnea 2521
- Neem oil**
nontarget effects, beneficial insects 899
nuclear polyhedrosis viruses, interactions 1375
toxicity, *Agriaspis citricola* 1608
- Neem seed extract**, nontarget effects, predatory arthropods 445
- Neem seed extracts**
toxicity
Amblyseius 2530
Trichogramma chilonis 2522
- Nematoda**
biological control 1031-1035
Arthrobotrys robusta, Brazil 1768
Duddingtonia flagrans 1051
Fiji 1029, 1052
horses 385
Indonesia 1028
livestock 385
Mexico 1027
nematophagous fungi 1050
Paraguay 1026
Verticillium chlamydosporium 1385
cattle, Brazil 1768
hosts
Cernuella virgata 2788
Cochlicella acuta 2788
Theba pisana 2788
nematophagous fungi, *Arthrobotrys* 1308
- Nematophagous fungi**
Cooperia oncophora, biological control 2448
Heterodera glycines, biological control 2184
Meloidogyne incognita, biological control 2223
Nematoda, biological control 1050, 2449
reviews 1392
- Neochetina bruchi*, *Eichhornia crassipes*, biological control, USA 2503, 2505
- Neochetina eichhorniae*
Eichhornia crassipes, biological control, USA 2503, 2505
glyphosate, nontarget effects 468
- Neochrysocharis**
aubergine fields, Japan 2220
Citrus orchards, USA 2283
hosts, *Liriomyza trifolii* 2220
population dynamics 2220
- Neochrysocharis aratus*
barley fields, Norway 2136
- Neochrysocharis aratus* cont.
hosts, *Chromatomyia fuscata* 2136
population dynamics 2136
- Neochrysocharis formosa**
aubergine fields, Japan 2220
hosts, *Liriomyza trifolii* 1702, 2220, 2386, 2614
Japan 1320
parasitoids, *Liriomyza trifolii* 1320
population dynamics 2220
reproduction 2614
- Neochrysocharis okazaki*
aubergine fields, Japan 2220
hosts, *Liriomyza trifolii* 2220
Japan 1320
parasitoids, *Liriomyza trifolii* 1320
population dynamics 2220
- Neodiplogrammus quadrivittatus*, *Sesbania punicea*, biological control, South Africa 407
- Neodiprion serifer*, biological control, Ukraine 948
- Neodiprion taedae linearis*
pathogens, nuclear polyhedrosis viruses 296
Pinus taeda 296
- Neodryinus typhlocybae*
Metacalfa pruinosa
biological control 2351
Croatia 1404
France 2082
Italy 717
- Neominois ridingsii*, *Bacillus thuringiensis*, nontarget effects 449
- Neoperezia chironomi*, ultrastructure 561
- Neorhacodes enslini*, hosts, *Spilomena* 838
- Neorileya*, soyabean fields, Brazil 772
- Neoscona*, predators, *Trypoxylon politum* 2780
- Neoscona arabesca*, predators, *Sceliphron caementarium* 2780
- Neoseiulus barkeri*
feeding behaviour 2697
prey, *Scirtothrips citri* 892
- Neoseiulus californicus**
apple orchards
Argentina 2247
France 1572
behaviour 2022
cannibalism 2691
feeding behaviour 2697
functional responses, strawberry fields, Italy 1575
horticultural crop fields, Spain 718
insecticides, nontarget effects 2247
Panonychus ulmi, biological control, France 1572, 1584
pear orchards, Japan 173
predators
Neoseiulus californicus 868
Oligota pygmaea 868
Phytoseiulus persimilis 2693-2694
- prey
Dermatophagoides farinae 1575
Neoseiulus californicus 868
Panonychus ulmi 2247
Phytonemus pallidus 862
Phytoseiulus persimilis 2693-2694
Tetranychus urticae 821, 1575, 2205, 2259, 2385, 2694
spatial distribution, strawberry greenhouses, Argentina 2259
temperate fruit orchards, Spain 861
Tetranychus urticae
biological control 186
Belgium 177
Spain 2257
- Neoseiulus cucumeris**
behaviour 2022
cannibalism 2691
controlled release 1141
Frankliniella occidentalis
biological control 133-134, 141, 986
integrated control, France 1546
Phytonemus pallidus, biological control 862
- prey
Frankliniella occidentalis 586, 1406
Scirtothrips citri 892
Thrips palmi 1406
taxonomy 2570
- Neoseiulus cucumeris** cont.
Thysanoptera, biological control, Switzerland 140
- Neoseiulus fallacis**
feeding behaviour 2697
hop gardens, USA 2322
prey
Acari 2633
Eriophyidae 2633
Tetranychidae 2633
Tetranychus 2633
Tetranychus urticae, biological control, USA 2322
- Neoseiulus longispinosus**
behaviour 2022
cannibalism 2691
development 1191
prey
Tetranychus kanzawai 674
Tetranychus urticae 1191
- Neoseiulus tunus**, apple orchards, Brazil 853
- Neozygites fresenii**
Aphis gossypii, biological control, USA 258, 2336
hosts
Aphidoidea 1653
Aphis gossypii 940, 2627
sampling 273
- Neozygites parvispora**
cucumber greenhouses, Spain 139
hosts
Frankliniella occidentalis 139
Limothrips 670
- Nepeta cataria** extracts
attractants
Aphidius ervi 1987
Praon volucre 1987
- Nephele densoi*, food plants, *Cryptostegia grandiflora* 1805
- Nephotettix cincticeps**
parasitoids
Gonatopus guangxiensis 1895
Paracentrobia andoi 1142
pathogens, *Erynia delphacis* 1359
- Nephotettix virescens**
India 2134
pathogens
Beauveria bassiana 2134
Entomophaga aulicae 2134
Erynia radicans 2134
Fusarium 2134
Metarhizium flavoviride 2134
Pandora delphacis 2134
predators, *Cyrtorhinus lividipennis* 2663
- Nephus bilucernarius**
Pheidole megacephala, interactions 1616
pineapple plantations, USA 1616
- Nerine radiata**
forest trees, Austria 976
prey, Delphacidae 976
- Nesolynx dipterae*, hosts, *Exorista bombycis* 1187
- Netherlands**
beneficial insects, habitats 2262
Chrysodeixis chalcites, biological control, *Podisus maculiventris* 820
Crioceris asparagi
asparagus 102
biological control, *Tetrastichus coeruleus* 102, 787
Panonychus ulmi, biological control, *Typhlodromus* 2240
Psylla, biological control, *Anthocoris* 2240
Rhizoctonia solani, biological control, *Verticillium biguttatum* 784
Solanum dulcamara, biological control, *Chondrostereum purpureum* 2466
- Neuroptera**
apple orchards, Switzerland 170
orange orchards, Australia 1593
pear orchards, France 171
predators, *Iridomyrmex rufoniger* group 1593
- Neurostrot gunniella**, *Mimosa pigra*, biological control, Australia 1066
- New Caledonia**, *Diolcogaster*, taxonomic revisions 1898
- New combination**, *Endophyllum osteospermi* 392
- New genus**, *Cryptastichus* 506

New geographic records

- Acari, *Morchella habitata*, Turkey 1714
Cotesia rubecula, Canada 644
Heterorhabditis indicus, Pakistan 645
Ichneumonidae, Bulgaria 2749
Microgaster, China 2057
Microspora, Ukraine 362

New host records, *Diaeretiella rapae*, USA 1975**New species**

- Acythopeus* 1065
Amblyospora salinaria 1174
Anastatus, China 1892
Aptesis grandis 507
Aschitus zakeri 1180
Chalcodermus persimilis 408
Cirrospilus huangyanensis 202
Coccidocyrtus longicaudatus 1179
Cotesia, cabbage fields, South Africa 1897
Cryptastichus sabo 506
Encarsia 1894
Encyrtidae 2563
Fopius 2316
Gonatopus 1895
Grypocentrus 2347
Guptaiella indica 504
Homalotylus 1176
Jauravia hanifi 510
Kitasatospora cheerisanensis 2566
Labena fiorii 1890
Mesocormys aegeriae 505
Metaphycus hageni 2306
Omphale epilachni 509
Orthomyces aleyrodes 269
Paecilomyces griseiviridis 508
Paraphaenodiscus monawari 1180
Peristenus howardi, lucerne fields, USA 2157
Scymnus tachengius 46
Septoria hodgei 1790
Serangium serratum 2567
Syngliocladium tetanopsis 242
Trichogrammatidae 1893
Zarhopalus debarri 1178

New Zealand

- Alternanthera philoxeroides*, biological control, *Agasicles hygrophila* 1812
Carduus nutans, biological control, *Rhinocyllus conicus* 432
Cirsium arvense, biological control, *Sclerotinia sclerotiorum* 2469
Diaspididae, biological control, *Hemisarcophaga coccophagus* 1565
Diolcogaster, taxonomic revisions 1898
entomopathogens 720
Epiphyas postvittana, biological control, parasitoids 845
Hemisarcophaga coccophagus, orchards 1565
nuclear polyhedrosis viruses, biological control, *Orgyia thyellina* 2112
parasitoids, temperate fruit orchards 846
Sphecoaphaga vesparum, biological control, *Vespa vulgaris* 1045
Sphecoaphaga vesparum vesparum, overwintering 1972
Tortricidae
biological control
Bacillus thuringiensis 1582
Bethylidae 1417
parasitoids 1416
Ulex europaeus, biological control, *Cydia succedana* 1806
Vespa vulgaris, *Nothofagus* forests 2353

Nezara viridula

- biological control, South East Asia 700
food plants, Brazil 1486
parasitoids
Telenomus podisi 1205
Trichopoda giacomellii 1190, 1486, 2616

Nicaragua, *Jatropha curcas*, integrated control 2290**Nicotine, nontarget effects, *Aphidius colemani* 1277****Niger**

- Acrotylus blondeli*, biological control, *Metarhizium* 2779

Niger cont.

- Callosobruchus maculatus*, cowpea seeds 1720
Locusta pardalina, biological control, *Metarhizium* 2779
Oedaleus senegalensis, biological control, *Metarhizium anisopliae* 2772
Pyrgomorpha cognata, biological control, *Metarhizium* 2779
Nigeria, *Striga hermonthica*, biological control, *Fusarium oxysporum* 2512
Nilaparvata lugens
agricultural chemicals, nontarget effects 2534
natural enemies 2141
parasitoids
Mymaridae 1457
Trichogrammatidae 1457
pathogens
Erynia delphacis 1359
Pandora delphacis 40
predators
Cyrtorhinus lividipennis 2663
Microvelia horvathi 519
Monomorium pharaonis 2049
Ummeliata insecticeps 1453
rice
China 1457, 2141
India 40
Nimbya alternantherae, hosts, *Alternanthera philoxeroides* 2454
Nimbya scirpicola, *Eleocharis kuroguwai*, biological control 1057
Niphades castanea, biological control, *Steinernema carpocapsae* 687
Noctuidae, biological control, *Bacillus thuringiensis* 2089
Nomuraea rileyi
Helicoverpa armigera, biological control 2324
hosts
Helicoverpa armigera 44
Spodoptera litura 764, 1188

North America

- Ceutorhynchus assimilis*, parasitoids 1623
forest pests, biological control, entomopathogens, reviews 1665
Heterobasidion annosum, biological control 696
Hypera postica, biological control, reviews 1471
Lygus, biological control, *Peristenus* 9
Lymantria dispar, biological control, *Entomophaga maimaiga*, reviews 1663
Lythrum salicaria
biological control
Chrysomelidae 1813
Coleoptera 2511
insects 2511
Tipula paludosa, biological control 1704
Trichogramma, identification 2720

Northern Ireland

- Lycoriella mali*, biological control, *Stratiolaelaps miles* 1712
Sciaridae, biological control, *Steinernema feltiae* 324

Norway

- Botrytis cinerea*, biological control, *Trichoderma* 167
Carabidae, dispersal, oat fields 1445
Hymenoptera
barley fields 2136
Populus forests 2136
parasitoids, barley fields 742

Nosema

- hosts
Antheraea yamamai 1916
Diaphania pyloalis 1916
Hyphantria cunea 1916
Lemyra imparilis 1916
Lymantria dispar 1916, 2000
Mythimna separata 1916
Phthonandria atrilineata 1916
Pieris rapae crucivora 1916
Plutella xylostella 2046
Sphragidius similis 1916
Spodoptera exigua 2046
Spodoptera litura 1916
sugars 2046
Nosema apis, sugars 2046

Nosema bombycis

- hosts
Antheraea yamamai 1916
Diaphania pyloalis 1916
Hyphantria cunea 1916
Lemyra imparilis 1916
Lymantria dispar 1916
Mythimna separata 1916
Phthonandria atrilineata 1916
Pieris rapae crucivora 1916
Sphragidius similis 1916
Spodoptera litura 1916
Nosema disstriae, sugars 2046
Nosema locustae
Acrididae, biological control, China 758
Locusta migratoria manilensis, integrated control, China 1821
Nothofagus, Lepidoptera, New Zealand 2353
Nothofagus forests, *Vespa vulgaris*, New Zealand 2353
Notiobia cupripennis
food plants, *Amaranthus quitensis* 2183
soybean fields, Argentina 2183
Notostira elongata
predators
Nabis brevis 2160
Nabis pseudoferus 2160
Tibellus oblongus 2160
Nuclear polyhedrosis viruses
biological control
insect pests 1369
Orgyia thyellina, New Zealand 2112
control, *Parocneria orientalis* 1695
culture techniques 1863, 2550
detection 480
formulations 473, 2079, 2767
genes 613
Helicoverpa armigera
biological control 473, 775, 1543
Australia 733
India 1484
integrated control, India 833
hosts
Anticarsia gemmatilis 480, 2171
Autographa californica 2203
Bombyx mori 612
Choristoneura fumiferana 280
Choristoneura occidentalis 2081
Crocidolomia pavonana 2203
Galleria mellonella 2203
Helicoverpa armigera 682, 922, 1126, 1208, 1226, 1381, 1923, 2328, 2646
Helicoverpa zea 610, 1330, 1438, 1863, 1912
Heliopsis virescens 623, 1237, 1330, 1334, 2203
Lepidoptera 1225
Lymantria dispar 610, 964, 2000, 2356
Malacosoma californicum pluviale 1671
Malacosoma disstriae 1857
Malacosoma neustria 681, 1952
Mamestra brassicae 2203
Neodiprion taedae 296
Orgyia antiqua 1693
Orgyia pseudotsugata 1674
Ostrinia nubilalis 1438
Plutella xylostella 2203
Spodoptera exigua 1296, 1912
Spodoptera frugiperda 680, 1438
Spodoptera litura 532, 1375-1376, 2074, 2088, 2516
Streblothe siva 2348
Thiacidas postica 2273
Thysanoplusia orichalcea 226
Trichoplusia ni 624, 1237
Wiseana cervinata 2029
Wiseana signata 2029
Wiseana umbraculata 2029
Hyblaea pueri, biological control, India 955
identification 480
Lymantria dispar, biological control, USA 289, 962-963, 1683
mass rearing 106
mutants 1296
neem oil, interactions 1375
Noctuidae, biological control, USA 264, 2331

- Nuclear polyhedrosis viruses** *cont.*
nontarget effects, *Chrysoperla carnea* 1125
Orygia pseudotsugata, biological control 971
Parocneria orientalis, biological control, China 973, 1695
pathogenicity 612
in vitro culture 1882
plant extracts, interactions 2074, 2516
release, genetic engineering 1683
Spodoptera frugiperda, biological control, Latin America 1433
Spodoptera litura, biological control 106, 802, 2248
Scynus leucomesus, interactions 1233
- Nucleotide sequences**, *Bacillus thuringiensis* subsp. *kurstaki* 2716
- Nuphar variegata*, biological control, insects, USA 437
- Nymphaea odorata*, biological control, insects, USA 437
- Nymphula oblitteralis*, *Azolla filiculoides*, biological control, Africa 1809
- Oat fields, Carabidae, dispersal, Norway 1445
- Oats, plant pathogenic fungi, Sweden 30
- Ocimum basilicum*, *Rotylenchulus reniformis* 155
- Ocnerna hispida*, nontarget effects, entomogenous fungi 2771
- Octotoma championi*, *Lantana camara*, Australia 421
- Octotoma scabripennis*, *Lantana camara*, Australia 421
- Ocyptamus argentinus*, keys, fields, Argentina 1458
- Ocypus similis*
prey
Julidae 49
Polydesmidae 49
- Odoiporus longicollis*, pathogens, *Metarhizium anisopliae* 1591
- Odontosema anastrephae*
diversity, orchards, Mexico 1615
forests, Mexico 953
hosts, *Anastrepha* 953
- Odontotermes transvaalensis*, predators, *Microplana termitophaga* 598
- Oebalus insularis*, biological control 1462
- Oecophoridae**, *Heracleum*, biological control 404
- Oecophylla longinoda*
coconut plantations, Zanzibar 235
prey, *Pseudotheraptus wayi* 235
Pseudotheraptus wayi, biological control, Tanzania 921
- Oecophylla smaragdina*
cashew plantations, Australia 908, 2292
Citrus pests, biological control 2279
Helopeltis pernicialis, biological control 1212
prey
Amblypelta lutescens 908
Helopeltis pernicialis 908
Penicillaria jocosatrix 908
- Oedaleus decorus asiaticus*, biological control, *Nosema locustae*, China 758
- Oedaleus senegalensis*
biological control, *Metarhizium anisopliae*, Niger 2772
pathogens, *Metarhizium flavoviride* 571
- Oenopia kirbyi*
mandarin orchards, India 1596
population dynamics 1596
prey, Homoptera 1596
- Oenopia luteopustulata*
mandarin orchards, India 1596
population dynamics 1596
prey, Homoptera 1596
- Oesophagostomum dentatum*, biological control, *Duddingtonia flagrans* 1048
- Oidium*, *Euphorbia heterophylla*, biological control 398
- Oil palms**
Leptopharsa gibbicarina, Colombia 2301
Segestidea novaeguineae, Papua New Guinea 233
Tettigoniidae, Papua New Guinea 230
- Oils**, nontarget effects, parasitoids 213
- Okras*, *Meloidogyne incognita* 2224
- Olesicampe macellator*
hosts, *Diprion pini* 1697
Pinus forests, Germany 1697
- Oligota oviformis*
crop fields, Bulgaria 713
prey
Tetranychus turkestanii 713
Tetranychus urticae 713
- Oligota pygmaea*, prey, *Neoseiulus californicus* 868
- Olios*, prey, *Myiolocerus viridanus* 994
- Olive orchards**
beneficial insects, Greece 918
predatory insects, Spain 873
- Olives**
Prays oleae
Morocco 917
Portugal 2304
Spain 873
Saissetia oleae, Spain 2306
- Olla v-nigrum*
Heteropsylla cubana, biological control 1670
pecan orchards, USA 909
- Omotoma fumiferanae*
hosts, *Choristoneura fumiferana* 950
Trichogramma minutum, interactions 950
- Omphalopion hookeri*, *Matricaria perforata*, biological control, Canada 1796
- Omphale epilachni*
hosts, *Epilachna vigintioctopunctata* 509
India 509
new species 509
- Onions**, *Sclerotium cepivorum*, Ghana 1494
- Ooencyrtus**
hosts, *Epiricania melanoleuca* 929
soyabean fields, Brazil 772
Tessarotoma papillosa, biological control 217
- Ooencyrtus johnsoni*
fields, USA 6
hosts
Mozena obtusa 416
Murgantia histrionica 6
- Ooencyrtus kuvanae*, hosts, *Lymantria dispar* 587
- Ooencyrtus nezarae*
hosts
Piezodorus hybneri 2678
Riptortus clavatus 76, 2678
Japan 76
- Ooencyrtus pityocampae*
hosts, *Thaumetopoea pityocampa* 1698, 1976
Pinus nigra forests, Bulgaria 1698
reproduction, Europe 1976
- Oomyzus**
aubergine fields, Japan 2220
hosts, *Liriomyza trifolii* 2220
population dynamics 2220
- Oomyzus gallerucae*, *Pyrrhalta luteola*, biological control, USA 287
- Oomyzus sokolowskii*
cabbage fields, Japan 801
fields, China 100
hosts, *Plutella xylostella* 100, 450, 801, 1293
insecticides, toxicity 450
- Operophtera brumata*, parasitoids, *Cyzenis albicans* 1570
- Ophelosia*, hosts, *Planococcus citri* 209
- Ophiomyia*, parasitoids, *Opius phaseoli* 779
- Ophiomyia lantanae*, *Lantana*, Australia 1808
- Ophiomyia phaseoli*
biological control 700
Phaseolus vulgaris, Kenya 779
predators, *Oxylobus* 2775
South East Asia 700
- Ophiomyia spencerella*, *Phaseolus vulgaris*, Kenya 779
- Ophiostoma*, antagonists, *Pythium oligandrum* 945
- Ophiostoma novo-ulmi*
biological control 958
Verticillium dahliae, Spain 1686-1687
Ulmus 958
Spain 1686-1687
- Ophryocystis elektrosirra*, hosts, *Danaus plexippus* 2623
- Opiliones**, apple orchards, Czech Republic 1135
- Opisina arenosella*
biological control 231
coconuts 231
predators, *Cardiastethus exiguus* 2590
- Opius**
hosts
Liriomyza sativae 2106
Liriomyza trifolii 1702
- Opius concolor*
hosts, *Bactrocera oleae* 1122
insect growth regulators 1122
pesticides, nontarget effects 1133
- Opius hirtus*, diversity, orchards, Mexico 1615
- Opius phaseoli*, hosts, *Ophiomyia* 779
- Opogona sacchari*, pathogens, *Steinernema carpocapsae* 562
- Opuntia stricta*
biological control
Cactoblastis cactorum, USA 413
Dactylopius opuntiae, South Africa 1072, 2488
- Oracella acuta*, parasitoids, *Zarhopalus debarri* 1178
- Orange groves**, predatory insects, USA 199
- Orange orchards**
beneficial arthropods, Australia 1593
beneficial insects, Australia 207
Candida oleophila
genetic transformation 1588
population dynamics, USA 1587
Eulophidae, Italy 1599
parasitoids, diversity, Mexico 1615
- Oranges**
Aleurothrixus floccosus, Greece 1612
Penicillium digitatum 2265
Phyllostictis citrella, Italy 1599, 2277
postharvest decay 879
- Orchards**
beneficial arthropods, spatial distribution 2021
Chilocorus nigrita, India 2272
insect pests, integrated pest management, conferences 2246
Panonychus ulmi, France 1584
Typhlodromus pyri, France 1568
- Oreonetes platycephalus*, prey, Chironomidae, Sweden 1766
- Organophosphates**, toxicity, *Cotesia glomerata* 1130
- Organophosphorus pesticides**, toxicity, *Trichogramma chilonis* 2522
- Orgilus obscurator*, *Gypsonoma aceriana*, biological control, Bulgaria 2352
- Orygia antiqua*
pathogens, nuclear polyhedrosis viruses 1693
Pinus contorta, UK 1693
- Orygia pseudotsugata*
biological control, nuclear polyhedrosis viruses 971
pathogens, nuclear polyhedrosis viruses 1674
Pseudotsuga menziesii, North America 971
- Orygia thyellina*, nuclear polyhedrosis viruses, biological control, New Zealand 2112
- Orius**
cotton fields
Egypt 1657-1658
Spain 944
East Africa 1407
habitats, Netherlands 2262
hedges, France 633
maize fields, Spain 2132
methomyl, nontarget effects 1658
population dynamics 2262
prey
Aphis gossypii 1658
Cacopsylla pyri 2262
Cacopsylla pyricola 2262
Cacopsylla pyrisuga 2262
Frankliniella occidentalis 852
Thrips tabaci, biological control 2201
Thysanoptera, biological control 2214
vineyards, Italy 852
- Orius albidipennis*
fields, Egypt 2110

Orius albidipennis cont.

- Helicoverpa armigera*, biological control,
Spain 944
weeds, Egypt 2110
wheat fields, Egypt 1456

Orius insidiosus

- Frankliniella*, biological control 826
insecticides
nontarget effects 2536
toxicity 461, 1123, 2524, 2538
maize fields, USA 1432
prey

- Acyrtosiphon pisum* 572
Cicadellidae 1432
Frankliniella occidentalis 1432, 2593
Helicoverpa zea 1432, 1483
Ostrinia nubilalis 1432
Rhopalosiphum maidis 1432
soyabean fields, USA 770

Orius laevigatus

- fields, Egypt 2110
Frankliniella occidentalis, biological control 133
Helicoverpa armigera, biological control,
Spain 944

- prey, *Frankliniella occidentalis* 586
weeds, Egypt 2110

Orius majusculus

- crop fields, Bulgaria 713
cucumber fields, Hungary 831
Frankliniella occidentalis, biological control 133

prey

- Acyrtosiphon pisum* 1249
Miridae 831
Sitotroga cerealella 1249
Tetranychus turkestanii 713
Tetranychus urticae 713, 831
Thrips tabaci 831
searching behaviour 2014

Orius maxidentex

prey

- Haplothrips ganglbaueri* 2302
Megalurothrips usitatus 2302
Thrips hawaiiensis 2302
sunflower fields, India 2302

Orius minutus

- aubergine fields, Japan 1539
biology 551
cotton fields, China 1661
environmental factors 522
identification 1539
population dynamics 1661
prey

- Ephestia kuehniella* 551
Thrips palmi 1539

Orius niger

- cucumber fields, Hungary 831
fields, Egypt 2110
prey

- Miridae 831
Tetranychus urticae 831
Thrips tabaci 831
weeds, Egypt 2110

Orius sauteri

- apple orchards, China 189
aubergine fields, Japan 1539
biology 551
diapause 2618
environmental factors 522
identification 1539
mating behaviour 1288
photoperiod 1204
prey

- Aphidoidea 189
Ephestia kuehniella 551
Thrips palmi 1539, 2612

Orius strigicollis

- development 2620

prey

- Aphis gossypii* 1402, 2620
Bemisia 1402
Frankliniella intonsa 1402
Helicoverpa zea 1402
Psyllidae 1402
Tetranychus 1402
Thripidae 2620
Thrips hawaiiensis 1402
Thrips palmi 1402

Orius tantillus

- field crop fields, India 780

Orius tantillus cont.

prey

- Aphis gossypii* 1402
Bemisia 1402
Ephestia kuehniella 1876
Frankliniella intonsa 1402
Helicoverpa zea 1402
Psyllidae 1402
Tetranychus 1402
Thrips hawaiiensis 1402
Thrips palmi 1402, 1876
Tyrophagus putrescentiae 1876

Orius tristicolor

- prey, *Dasineura gleditchiae* 313
Tetranychus urticae, biological control 257

Ornamental plants

- Agromyzidae, Austria 311
Frankliniella occidentalis 985
Morocco 709
USA 709
Tetranychus 2383

Orobanche crenata,

- Phytomyza orobanchia*, Egypt 2479

Orobanche cumana

- biological control
Fusarium oxysporum 913
Bulgaria 2486
Fusarium oxysporum f.sp. *orthoceras* 402
sunflowers 402
Nepal 913

Orthomyces aleyrodes

- cotton fields, USA 269
hosts, *Trialeurodes abutiloneus* 269
new species 269

Orthoptera

- biological control
Beauveria bassiana, Mali 1110
Metarhizium anisopliae 441

pathogens

- Heterorhabditis bacteriophora* 1946
Steinernema feltiae 1946
Steinernema rarum 1946
predators, *Liris nigra* 1260

Orthotydeus lambi

- acaricides, nontarget effects 1563
Uncinula necator, biological control,
USA 1563

Oryctes monoceros

- biological control, *Baculovirus oryctes*,
Tanzania 2307
coconuts, Tanzania 2307

Oryctes rhinoceros

- biological control 231
coconuts 231

Oryzaephilus surinamensis, parasitoids,

- Cephalonomia tarsalis* 1276

Oryzopsis hymenoides

- Chrysoperla carnea* 60
Propylea quatuordecimpunctata, functional responses 63

Ostertagia ostertagi

- biological control
Duddingtonia flagrans 2446
Denmark 2450

- cattle dung, Denmark 2446

Ostrinia furnacalis

- maize 739

- China 745

parasitoids

- Macrocentrus cingulum* 745
Trichogramma dendrolimi 1978
pathogens
Bacillus thuringiensis subsp. *kurstaki* 739
Clavibacter xyli subsp. *cynodontis* 739

Ostrinia nubilalis

- biological control, entomophilic nematodes 54
cereals, Egypt 1444
maize 54

- Europe 1454
USA 745, 1455

parasitoids

- Bracon brevicornis* 1363
Diadegma terebrans 1455, 1922
Euplectrus comstockii 628
Lixophaga 1455
Macrocentrus cingulum 745

Ostrinia nubilalis cont.

parasitoids cont.

- Macrocentrus grandii* 1455
Sinophorus turionis 1454
Sympiesis viridula 1455
Trichogramma brassicae 2040, 2078
Trichogramma evanescens 1444, 2078
Trichogramma nubilale 574
Trichogramma ostrinae 2078

pathogens

- Bacillus thuringiensis* 550, 620, 1438
nuclear polyhedrosis viruses 1438
predators, *Orius insidiosus* 1432

Otiophrynchus ligustici

- biological control, *Heterorhabditis bacteriophora*, USA 1468
hops, Czech Republic 2395
hosts, *Steinernematidae* 2395
lucerne, USA 1468

Otiophrynchus sulcatus

- biological control
entomophilic nematodes 2243
USA 988
Heterorhabditis 2659
models 485
Heterorhabditis bacteriophora
Italy 2382
USA 2261
Heterorhabditis marelata, USA 2261
Steinernema carpocapsae, Canada 2260

- cranberries, Canada 2260

- ornamental plants, Italy 2382

pathogens

- Heterorhabditis* 608
Steinernema arenarium 2656
strawberries, USA 2261

Overwintering

- Sphecoptera vesparum vesparum*, New Zealand 1972
Trichogramma closterae 530

Oviposition

- Amitus bennetti* 2015
Anthocoridae 2367
Aphelinus abdominalis 604
Chrysoperla carnea 585
Dinarmus basalis 1994
Episyrphus balteatus 1992
Eurosta solidaginis 2477
Goniozus indicus 575
Hymenoptera 1161
Leptopilina boulardi 581
Leschenaultia exul 596
Trichogramma australicum 601
Trichogramma nubilale 574

Ovipositor

- Aphelinidae 1969
Braconidae 1239-1240

Ovomermis sinensis

hosts

- Pieris rapae* 1500
Spodoptera exigua 1500
Spodoptera litura 1500

Oxamyl

- nontarget effects
Anthonomus grandis 1845
beneficial arthropods 942
toxicity, predatory insects 461, 1123

Oxya nitidula

- pathogens, *Fusarium* 1431
rice, India 1431

Oxya velox, parasitoids, *Anastatus* 1641

- Oxydemeton-methyl*, nontarget effects,
Typhlodromus pyri 1568

Oxylobus, prey, *Ophiomyia phaseoli* 2775**Oxyopes javanus**

- prey, *Scirpophaga incertulas* 1459
rice fields, India 1459, 2140

Pachnaeus litus, biological control,

- Steinernema*, USA 2274

Pachycrepoides veerannai, hosts, *Exorista bombycis* 2417**Pachycrepoides vindemmiae**

- diversity, orchards, Mexico 1615
forests, Mexico 953
hosts

- Anastrepha* 953

- Musca domestica* 2436

- Stomoxys calcitrans* 2436

- Pachyneuron aphidis**
hosts, *Aphis fabae* 1100
Lupinus extracts, nontarget effects 1100
- Pachysphinx occidentalis**, pathogens, *Cotesia congregata* 627
- Paecilomyces anisopliae**, hosts, *Blattella germanica* 2440
- Paecilomyces farinosus**
entomophilic nematodes, interactions 2730
growth 1214
hosts
 Agonum dorsale 753
 Bembidion lampros 753
 Bemisia argentifolii 533, 2596
 Blattella germanica 2440
 Diprion pini 1689
 Sitona lineatus 2170, 2730
- Paecilomyces fumosroseus**
Aleyrodidae
 biological control
 Belgium 136
 Japan 822
Bemisia argentifolii
 biological control 703
 USA 260
 culture techniques 1163, 1872
 Delia, biological control 805
 Diuraphis noxia, biological control 1929
 dyes, toxicity 2773
 entomophilic nematodes, interactions 2730
 fungicide tolerance 1837
 genetic engineering 1837
 growth 1214
 hosts
 Bemisia argentifolii 533, 1507, 1872
 Blattella germanica 2440
 Cylas formicarius elegantulus 1938
 Delia radicum 2200
 Diprion pini 1689
 Heterodera schachtii 2645
 Megalurothrips sjostedti 1209
 Meloidogyne javanica 2645
 Plutella xylostella 1950
 Sitona lineatus 2170, 2730
 infectivity 1950
- Paecilomyces griseiviridis**
hosts, *Aphis gossypii* 508
new species 508
- Paecilomyces lilacinus**
antagonism
 Fusarium solani 2299
 Macrophomina phaseolina 2299
 Rhizoctonia solani 2299
free living nematodes, biological control 685
fungicide tolerance 1837
Fusarium oxysporum, biological control 145
genetic engineering 1837
hosts
 Meloidogyne incognita 16, 153, 2222
 Meloidogyne javanica 159, 2655
 Pentalonia nigronervosa 2397
Meloidogyne, biological control 247
Meloidogyne incognita, biological control 150, 160, 835, 2116, 2226, 2231, 2233, 2286, 2323, 2401
Meloidogyne javanica, biological control 145, 248, 834
plant pathogens, biological control 834
Rotylenchulus reniformis, biological control 155
- Paederus alfieri**
cotton fields, Egypt 1657-1658
methomyl, nontarget effects 1658
prey, *Aphis gossypii* 1658
wheat fields, Egypt 1456
- Paederus fuscipes**
insecticides, nontarget effects 52, 1447
rice fields, India 52, 1447
- Paenibacillus macerans**, antagonism, *Pyrenophora tritici-repentis* 2127
- Paenibacillus polymyxa**, antagonism, *Fusarium oxysporum* 1901
- Pakistan**
Araneae
 Citrus orchards 1592
 rice fields 1437
Bacillus thuringiensis 2619
- Pakistan cont.**
Heterorhabditis indicus, new geographic records 645
- Palaeolecanium bituberculatum**
apple orchards, Turkey 865
parasitoids, *Coccophagus palaeolecanii* 865
- Palpomyia slossonae**, hosts, Diptera 368
- Panagrellus redivivus**, biological control, *Pleurotus ostreatus* 1389
- Panax pseudoginseng**, postharvest decay 322
- Pandora delphacis**
hosts
 Myzus persicae 2607
 Nephotettix virescens 2134
 Nilaparvata lugens 40
 photoperiod 1974
- Pandora neoaphidis**
cherry orchards, Denmark 2242
culture techniques 1877
environmental factors 1991
hosts
 Acyrtosiphon pisum 1991
 Myzus persicae 1877, 2607
- Panonychus citri**
biological control, *Amblyseius fallacis*, USA 317
predators
 Amblyseius andersoni 317
 Typhlodromus occidentalis 317
 Typhlodromus pyri 317
 Skimmia japonica, USA 317
- Panonychus ulmi**
apples 1569
 Argentina 2247
 Belgium 177
 France 172, 1572
 biological control
 Phytoseiidae
 France 1572, 1584
 USA 180
 Typhlodromus, Netherlands 2240
 Typhlodromus pyri
 Belgium 177
 France 172
 cotton, China 1661
 orchards, France 1584
predators
 Amblyseius fallacis 1569
 Kampimodromus aberrans 1313
 Neoseiulus californicus 2247
 Seiulus finlandicus 1313
 Typhlodromus pyri 1313
 Zetzellia mali 1569
- Panstrongylus herrerii**, pathogens, *Beauveria bassiana* 1041
- Pantana phyllotachysae**
biological control, *Beauveria bassiana*, China 1662
forest trees, China 1662
- Pantoea agglomerans**
hosts
 Cycocephala 2587
 Phyllophaga 2587
- Panzzeria ampelae**
hosts, *Mamestra configurata* 1887
keys 1887
- Papilio demoleus**
predators
 Anegleis cardoni 198
 Brumoides suturalis 198
 Carrhotus 198
 Cheilomenes sexmaculata 198
 Coccinella septempunctata 198
 Mantidae 198
 Vespa orientalis 198
- Papilio glaucus**, pathogens, *Bacillus thuringiensis* subsp. *kurstaki* 1335
- Papua New Guinea**, Tettigoniidae, biological control, *Stichotrema dallatorreanum* 230
- Papuana huebneri**
pathogens
 Bacillus popilliae 210
 Metarhizium anisopliae 210
- Papuana uninodis**
biological control, entomophilic nematodes 85
Colocasia esculenta 85
pathogens, *Bacillus popilliae* 1948
- Parabemisia myricae**
food plants, Turkey 1610
parasitoids, *Eremocerus debachi* 1610
- Paracentrobia andoi**, hosts, *Nephotettix cincticeps* 1142
- Parachrysocharis javensis**, insecticides, toxicity 1103
- Paradelia intersecta**, pathogens, *Strongwellsea castrans* 2433
- Paraguay**, Nematoda, biological control 1026
- Paragus serratus**, prey, *Aphis craccivora* 777, 2695
- Paragus yerburienensis**, prey, *Aphis craccivora* 2695
- Paraleyrodes minei**, predators, *Serangium parcesetosum* 1964
- Paraphaenodiscus monawari**, new species 1180
- Paraponera clavata**, prey, Lepidoptera 1281
- Parapoxyn stagnalis**
biological control, fishes, Vietnam 734
rice, Vietnam 734
- Paragus atratus**
mandarin orchards, India 1596
population dynamics 1596
prey, Homoptera 1596
- Parasaissetia nigra**, parasitoids, *Scutellista caerulea* 2282
- Paraseiulus talbii**, temperate fruit orchards, Spain 861
- Parasetigena silvestris**
hosts, *Lymantria dispar* 2359
Quercus rubra forests, Canada 2359
- Parasitoids**
apple orchards, Russia 837
Brassica fields, Canada 105
collection 1143
crop fields 1412
crop pests, biological control 2774
ecology, research 2734
feeding behaviour 583
host-seeking behaviour 576, 583, 1280
insect communities 2735
 reviews 2738
insect pests, biological control, reviews 672
insecticides, nontarget effects 1832
life history, reviews 1228
mating behaviour 1283
monocrotophos, nontarget effects 1089
mouthparts 1241-1242
Muscidae, biological control 1039
polydnavirus, interactions 631
population dynamics 2052, 2737, 2774
reproductive behaviour 2724
rice fields, India 1429
Scarabaeidae, biological control, Australia 1676
tillage, effects 2305
tobacco fields, India 2321
transgenic plants, effects 2334
ultraviolet radiation, effects 823
- Parastrongyloides trichosuri**
culture techniques 1860
hosts
 Trichosurus 1730
 Trichosurus vulpecula 1729
- Parathion-methyl**
nontarget effects
 Anthonomus grandis 1845
 beneficial insects 2523
 Micromus tasmaniae 448
 Rhynocoris 452
 Rhynocoris kumarii 2529
toxicity
 Rhynocoris fuscipes 464
 Trichogramma chilonis 1114
- Parastrongylus trichosuri**
hosts
 Trichosurus 1730
 Trichosurus vulpecula 1729
- Pardosa agrestis**
apple orchards, Hungary 1574
life history 1218
- Pardosa birmanica**, Citrus orchards, Pakistan 1592
- Pardosa oakleyi**, Citrus orchards, Pakistan 1592
- Pardosa pseudoannulata**
functional responses 48

- Pardosa pseudoannulata* cont.**
prey
 Salina 48
 Sogatella furcifera 48
Pardosa sumatrana, rice fields, India 2140
Parechthodryinus clavicornis
 Annona squamosa orchards, India 878
 hosts, *Kerria communis* 878
Paregle audacula, pathogens, *Strongwellsea*
 castrans 2433
Pareuchaetes pseudoinulata
 food plants, *Chromolaena odorata* 1884
 India 1884
 tracking, radioactive tracers 1884
Parlatoria blanchardii
 dates, Egypt 859
 parasitoids, *Aphytis* 859
Parlatoria orientalis
 predators
 Cheiracanthium 994
 Chilocorus nigrita 994
 Jauravia pallidula 994
 Platythomisus 994
 Podothrips 994
Parocneria orientalis
 biological control
 nuclear polyhedrosis viruses, China
 973
 pathogens, China 1695
 Cupressus, China 973
 Cupressus funebris, China 1695
Parthenium
 biological control, *Zygogramma*
 bicolorata, India 412
 Zygogramma bicolorata, India 1794
Parthenium hysterophorus
 biological control
 India 440
 Puccinia abrupta, Australia 1791
 Zygogramma bicolorata, India 1801
 Cenchrus ciliaris, interspecific competi-
 tion 419
 natural enemies
 Epiblema strenuana 419
 Zygogramma bicolorata 417, 2475
Parthenolecanium persicae, parasitoids,
 Blastothrix hungarica 2244
Passion fruits, Glomerella cingulata 1586
Pasteuria, reviews 2746
Pasteuria nishizawae, hosts, *Heterodera gly-*
 cines 2572, 2639
Pasteuria penetrans
 bacteria, interactions 2229
 culture techniques 2560
 Meloidogyne
 biological control 809, 991, 1386,
 1388
 reviews 2117
 Meloidogyne incognita
 biological control 150-151, 154, 158,
 789, 2191, 2229
 interactions 2642
 Meloidogyne javanica
 biological control 156
 interactions 157
 plant parasitic nematodes, biological con-
 trol, reviews 15
Pastures
 Boophilus microplus, Mexico 1780
 entomogenous fungi, spatial distribution,
 UK 2519
 Nassella trichotoma, Australia 62
 Syrphidae, keys, Argentina 1458
Pathogenicity
 nuclear polyhedrosis viruses 612
 in vitro culture 1882
Patricloides montanus, hosts, *Trichoplusia*
 ni 1906
Pawpaws
 Aleurodicus dispersus, India 2109
 Aonidiella orientalis, Australia 200, 888
 Meloidogyne incognita 2286
Paxillus involutus
 antagonists
 Burkholderia cepacia 1691
 Pseudomonas chlororaphis 1691
 Pseudomonas fluorescens 1691
Pea fields
 Diptera, Germany 912
 Hymenoptera
 India 2173
Pea fields cont.
 Hymenoptera cont.
 UK 782
Pea seeds, *Bruchus pisorum* 1719
Pea stores, *Uscana senex* 1719
Peach orchards, predatory arthropods, Spain
 861
Peaches
 Anarsia lineatella, USA 866
 Pseudaulacaspis pentagona, France 176
Pear orchards
 Anthocoris nemoralis, Greece 1581
 beneficial arthropods
 Czech Republic 857
 France 171, 2056
 beneficial insects
 Italy 2523
 Netherlands 2262
 Hemisarcoptes coccophagus, New Zea-
 land 1565
 Phytoseiidae, Japan 173
 predatory arthropods, Spain 854, 861
Pears
 arthropod pests 850
 Cacopsylla pyri, France 844
 Cacopsylla pyricola, USA 2251
 Cydia pomonella 875
 Erwinia amylovora 164
 USA 190
 insect pests, Belgium 177
 Psyllidae, Netherlands 2262
Peas
 Acyrthosiphon pisum, UK 782
 Chromatomyia horticola, India 2173
 Phoma medicaginis var. *pinodella* 767
 plant pathogenic fungi 2161, 2163
 Sitona lineatus 2170
 Poland 2169
Pecan orchards, Coccinellidae, USA 909-
 910, 2294
Pecans, *Monellia caryella*, USA 910
Pectinophora gossypiella
 biological control, *Steinernema* 2332
 cotton 2332
 parasitoids
 Brachymeria pomonae 599
 Trichogramma chilonis 2337
 pathogens
 Heterorhabditis bacteriophora 476
 Steinernema carpocapsae 476, 588
 Steinernema riobrave 476, 588
 predators, *Hippodamia convergens* 1138
Pediobius
 hosts, *Thaumetopoea pityocampa* 1698
 Pinus nigra forests, Bulgaria 1698
Pediobius bruchicida
 hosts, *Cnaphalocrocis medinalis* 748
 rice fields, India 748
Pediobius foveolatus
 foraging 2026
 hosts, *Epilachna vigintioctopunctata* 668,
 1131, 1535
 insecticides, toxicity 1131
 seasonal abundance, aubergine fields,
 India 1535
Pelargonium
 Cacysus marshalli, Poland 1703
 Xanthomonas hortorum pv. *pelargonii*
 981
Pelopidas mathias
 parasitoids
 Apanteles 42
 Apanteles javensis 42
 Eurytoma 42
 sorghum, India 42
Pendimethalin
 nontarget effects
 Araneae 1574
 Burkholderia cepacia 251
Penicillaria jocosatrix, predators,
 Oecophylla smaragdina 908
Penicillium
 antagonism
 Phytophthora infestans 121, 1525
 Sclerotinia sclerotiorum 1344
 antagonists, *Canidia sake* 326
 apples 326
 hosts, Culicidae 2425
Penicillium corylophilum
 hosts
 Aedes aegypti 2431
***Penicillium corylophilum* cont.**
 hosts cont.
 Aedes fluviatilis 2431
 Anopheles aquasalis 2431
 Culex quinquefasciatus 2431
Penicillium digitatum
 antagonists
 Candida oleophila 2265
 Debaryomyces hansenii 2268
 Pichia guilliermondii 2266
 Pseudomonas syringae 191
 Torulopsis candida 2266-2267
 yeasts 2267-2268
 Citrus 2266
 grapefruits 2267
 oranges 2265
Penicillium expansum
 antagonists
 bacteria 2238
 Candida oleophila 843
 Candida sativiana 163
 Candida sake 2241
 Cryptococcus infirmo-minutus 843
 Cryptococcus laurentii 843
 Pseudomonas syringae 843
 Rhodotorula glutinis 843
 yeasts 2239
 apples 163, 332, 2238
 Spain 2241
 apricots 2239
 biological control
 Candida sake 332
 Rhodotorula glutinis 165
Penicillium fellutanum
 hosts
 Aedes aegypti 2431
 Aedes fluviatilis 2431
 Anopheles aquasalis 2431
 Culex quinquefasciatus 2431
 Pentalonia nigronervosa 2397
Penicillium funiculosum
 antagonism, *Botrytis cinerea* 1551
 Fusarium oxysporum, biological control
 1700, 2372
Penicillium glabrum, antagonists, yeasts 516
Penicillium implicatum
 hosts
 Aedes aegypti 2431
 Aedes fluviatilis 2431
 Anopheles aquasalis 2431
 Culex quinquefasciatus 2431
Penicillium italicum
 antagonists
 Candida famata 216
 Candida sake 216
 Debaryomyces hansenii 2268
 Pichia guilliermondii 216
 yeasts 2268
 Citrus 216
Penicillium janthinellum
 hosts
 Aedes aegypti 2431
 Aedes fluviatilis 2431
 Anopheles aquasalis 2431
 Culex quinquefasciatus 2431
Penicillium oxalicum
 antagonism, *Fusarium oxysporum* f.sp.
 lycopersici 1518
 Fusarium oxysporum f.sp. *lycopersici*,
 biological control 111
Penicillium roquefortii
 biological control, *Pichia anomala* 24,
 997
 cereals 24
Penicillium viridicatum
 hosts
 Aedes aegypti 2431
 Aedes fluviatilis 2431
 Anopheles aquasalis 2431
 Culex quinquefasciatus 2431
Penicillium waksmanii
 hosts
 Aedes aegypti 2431
 Aedes fluviatilis 2431
 Anopheles aquasalis 2431
 Culex quinquefasciatus 2431
Pennisetum glaucum
 Marasimia trapezialis, India 2135
 Sclerospora graminicola, India 26
Pennisetum glaucum* fields, *Chelonus, India
 2135

- Pentalonia**, predators, *Cheilomenes sexmaculata* 2687
- Pentalonia nigronervosa**
biological control, South Pacific 10
cardamoms 2394
India 2397
Elettaria cardamomum 1713
pathogens
 Aspergillus parasiticus 2397
 Beauveria bassiana 2394
 Beauveria brongniartii 2394
 Fusarium oxysporum 2397
 Metarhizium anisopliae 2394
 Paecilomyces lilacinus 2397
 Penicillium fellutanum 2397
 Verticillium chlamydosporium 2394
 Verticillium lecanii 2397
predators
 Chrysoperla carnea 1713, 2398
 Scymnus trukensis 1203
- Peptides**, *Dinocampus coccinellae* 630
- Peribatodes rhomboidaria**
biological control, *Bacillus thuringiensis* subsp. *kurstaki*, Romania 181
grapes, Romania 181
- Pericallia ricini**, parasitoids, *Cotesia glomerata* 1186
- Perilampidae**
apple orchards, Switzerland 178
hosts
 Adoxophyes orana 178
 Cydia pomonella 178
- Perilampus nesiotis**
hosts, *Blepharipa zebina* 1731
India 1731
- Perillus bioculatus**
Bacillus thuringiensis subsp. *tenebrionis*, synergism 785
digestive system 629
Leptinotarsa decemlineata, biological control 785
potato fields, Canada 785
prey, *Leptinotarsa decemlineata* 629
volatile compounds, effects 2681
- Perina nuda**
pathogens, Picomaviridae 2564
Taiwan 2564
- Periplaneta americana**
parasitoids
 Ampulex compressa 1782
 Aprostocetus hagenowii 649
pathogens, *Beauveria bassiana* 1781
- Periplaneta australasiae**, parasitoids, *Aprostocetus hagenowii* 649
- Periplaneta fuliginosa**, parasitoids, *Aprostocetus hagenowii* 649
- Peristenus**
hosts, *Lygus* 761
lucerne fields, USA 761
Lygus, biological control, North America 9
- Peristenus conradi**
hosts, *Adelphocoris lineolatus* 762
lucerne fields, USA 762
- Peristenus digoneutis**
hosts, *Lygus lineolaris* 762
lucerne fields, USA 762
- Peristenus howardi**
hosts, *Lygus hesperus* 2157
new species, lucerne fields, USA 2157
- Permethrin**
nontarget effects
 Aphidius colemani 1277
 Typhlodromus occidentalis 1106
toxicity
 Brachygastra lecheguana 2526
 Exorista japonica 1094
 Suppatus cincticeps 462
- Peromyscus leucopus**
hosts
 Dermacentor variabilis 370
 Ixodes scapularis 370
- Persicaria hydropiper**
biological control, ducks, Japan 2151
rice, Japan 2151
- Persicaria thunbergii**
biological control, ducks, Japan 2151
rice, Japan 2151
- Persistence**
Bacillus thuringiensis, USA 679
- Persistence cont.**
Bacillus thuringiensis subsp. *israelensis*, models 1140
Entomophaga maimaiga 290
- Pest resistance**, biological control, interactions 1815
- Pestalotia**
biological control, Formicidae, Costa Rica 1675
Stryphnodendron microstachyum, Costa Rica 1675
- Pestalotiopsis guespini**, weeds, biological control 1056
- Pestalotiopsis neglecta**
antagonism
 Botryodiplodia theobromae 193
 Glomerella cingulata 193
 Phoma 193
 Phomopsis 193
- Pesticides**
nontarget effects
 beneficial arthropods 1135
 beneficial insects 1102
 natural enemies 1113
 Opius concolor 1133
 Pterostichus cupreus 456
 Trichogramma cacaeciae 1119
toxicity, predatory mites 2532
- Pet shops**, *Blattella germanica*, Denmark 2440
- Petrogallochirus dycei**, *Trichosurus* 1730
- Phaedon cochleariae**, pathogens, *Metarhizium anisopliae* 796, 1499
- Phaedrotoma**
hosts, Agromyzidae 2742
insect communities, Argentina 2742
- Phaeoramularia calotropidis**, hosts, *Calotropis procera* 2467
- Phaseolus fields**, *Diglyphus begini*, Colombia 1485
- Phaseolus vulgaris**
Bemisia tabaci
 Egypt 1411
 Honduras 75
Botrytis cinerea 65
Corticium rolfsii 1477
Fusarium solani 1478
Liriomyza trifolii, India 72
Meloidogyne javanica 2181
Ophiomyia, Kenya 779
plant pathogenic fungi 3, 2161, 2163
Rhizoctonia solani 69
- Phaseolus vulgaris fields**, *Encarsia formosa*, Egypt 1411
- Phaseolus vulgaris seeds**, *Rhizoctonia solani* 1481
- Phaulacridium vittatum**, pathogens, *Amphimeris acridiorum* 521
- Pheidole megacephala**
Dysmicoccus brevipex, natural enemies, interactions 1616
Dysmicoccus neobrevipes, interactions 902
pineapple orchards, USA 902
pineapple plantations, USA 1616
- Phellinus gilvus**, antagonists, *Streptomyces griseus* 2577
- Phenacoccus manihoti**
Manihot 2189
parasitoids, *Apoanagyrus lopezi* 788, 2189
predators, *Cecoxenus perspicax* 2569
- Phenology**, Coleoptera, lucerne fields, USA 1469
- Phenthoate**, toxicity, *Brachygastra lecheguana* 2526
- Pheromones**
beneficial insects 2800
effects, parasitoids 1272
- Pheropsochus hilaris sobrinus**, prey, *Bactrocera correcta* 204
- Phialophora**
antagonism, *Gaeumannomyces graminis* var. *tritici* 2130
Gaeumannomyces graminis var. *tritici*, biological control, USA 32
- Phidippus**, prey, *Stephanitis typicus* 1622
- Philephedra tuberculosa**
Annona muricata, Colombia 2280
biological control, *Verticillium lecanii*, Colombia 2280
- Philodromidae**
insecticides, nontarget effects 857, 1844
pear orchards, Czech Republic 857
population dynamics, apple orchards, Czech Republic 1844
- Philodromus cespitum**
insecticides, nontarget effects 1844
population dynamics, apple orchards, Czech Republic 1844
- Philonthus**
phenology, lucerne fields, USA 1469
prey, *Acyrtosiphon pisum* 1469
- Philonthus carbonarius**
golf courses, USA 2159
prey, *Ataenius spretulus* 2159
- Philonthus cognatus**
golf courses, USA 2159
prey, *Ataenius spretulus* 2159
- Phlaeothrips anacardii**, rose fields, India 979
- Phlebia gigantea**, *Heterobasidion annosum*, biological control, Finland 291
- Phlebiopsis gigantea**
Heterobasidion annosum
 biological control 2365
 Poland 293
 UK 1692
- Phlebotomus duboscqi**, pathogens, *Bacillus sphaericus* 1040
- Phloeospora maculans**
antagonists, *Bacillus* 1557
mulberries, Japan 1557
- Phobocampe disparis**
hosts, *Lymantria dispar* 2359
Quercus rubra forests, Canada 2359
- Phobocampe neglecta**, hosts, *Epirrita autumnata* 1666
- Phoetolotes nebrascensis**
grasslands, USA 1003
predators, *Schizocosa* 1003
- Pholetesor bicolor**
apple orchards, Spain 855
hosts
 Phyllonorycter corylifoliella 855
 Phyllonorycter mespilella 855
- Phoma**
antagonists
 Bacillus circulans 1701
 Bacillus coagulans 1701
 Pestalotiopsis neglecta 193
 Trichoderma 2374
- Phoma chrysanthemicola**, biological control, antagonists 2378
- Phoma exigua**, *Taraxacum officinale*, biological control, Canada 1787
- Phoma glomerata**
antagonism, *Plasmidiophora brassicae* 1496
hosts, *Meloidogyne javanica* 560
Plasmidiophora brassicae, biological control 791
- Phoma herbarum**, *Taraxacum officinale*, biological control, Canada 1787
- Phoma medicaginis var. pinodella**
biological control, *Bacillus subtilis* 767
peas 767
- Phomopsis**, antagonists, *Pestalotiopsis neglecta* 193
- Phomopsis convolvulus**
Convolvulus arvensis
 biological control 394, 2461
 Canada 2500
- Phoracantha semipunctata**
parasitoids, *Platystasius transversus*, Mediterranean Region 1684
predators, *Dendrocopos syriacus*, Mediterranean Region 1684
- Phorate**
nontarget effects, predatory arthropods 1447
toxicity, *Microvelia douglasi atrolineata* 1128
- Phoridiae**
Czech Republic 1201
hosts, *Chrysomela vigintipunctata* 1201
- Phorodon humuli**
parasitoids, *Diaeretiella rapae* 1975
predators
 Coccinella transversoguttata 2008
 Hippodamia convergens 2008

Phosalone

nontarget effects, beneficial arthropods 1091

toxicity

Adalia bipunctata 1829
Chrysoperla carnea 2521
Episyrphus balteatus 1117

Phosmet, toxicity, beneficial insects 457**Phosphamidon**

compatibility, *Bacillus thuringiensis* 1842
toxicity, predatory arthropods 465

Photoperiod

Orius sauteri 1204
Pandora delphacis 1974
Telenomus busseolae 1254

Photorhabdus luminescens

Heterorhabditis, symbiosis 639
Heterorhabditis bacteriophora, symbiosis 639
Heterorhabditis megidis, symbiosis 639
hosts
Galleria mellonella 639
Tipula oleracea 639

Phoxim**toxicity**

Cotesia glomerata 1130
Diadromus collaris 1112
Oomyzus sokolowskii 450

Phradis interstitialis

fields, Germany 2297
hosts, *Meligethes aeneus* 2297

Phradis morionellus

fields, Germany 2297
hosts, *Meligethes aeneus* 2297

Phragmidium, weeds, biological control 2459**Phragmidium violaceum**, *Rubus*, biological control, Australia 2480**Phratra polaris**, predators, *Phylloscopus trochilus* 1679**Phratra vitellinae**, predators, *Phylloscopus trochilus* 1679**Phryxe pecosensis**

hosts, *Mamestra configurata* 1887
keys 1887

Phryxe vulgaris

hosts, *Mamestra configurata* 1887
keys 1887

Phthonandria atrilineata

pathogens
Nosema 1916
Nosema bombycis 1916

Phthorimaea operculella

biological control
Copidosoma koehleri, Japan 1646
microbial pesticides 334
Indonesia 2750
pathogens, granulosis viruses 2750
potato tubers 334
tobacco, Japan 1646

Phygadeuon fumator

hosts
Musca domestica 2436
Stomoxys calcitrans 2436

Phyllocnistis citrella

biological control 700
Ageniaspis citricola
Argentina 218
Italy 1611
USA 211, 887, 2283
Cirrospilus, Italy 1600
Cirrospilus ingenuus, USA 2284
Hymenoptera, China 202

Citrus

China 202
Tunisia 903
USA 211, 887, 2283-2284
Citrus aurantiifolia, Mexico 206
lemons, Italy 1600, 1611
oranges, Italy 1599, 2277
parasitoids 890, 903, 1594

Ageniaspis citricola 546, 1372, 1608
Cirrospilus lyncus 1173, 1231, 1960
Cirrospilus pictus 1599
Cryptastichus 506
Cryptastichus sabo 506
Elasmidae 506
Elasmus 206
Encyrtidae 506
Eulophidae 506
Eupelmidae 506

Phyllocnistis citrella cont.**parasitoids** cont.

Galeopsomyia 206
Galeopsomyia fausta 897, 1614
Horismenus 206
Phnigalis 898
Quadrastichus 1173, 1229
Semiachar petiolatus 1599

pathogens, *Bacillus thuringiensis* 201

South East Asia 700

Phyllocnistis labyrinthella**parasitoids**

Cirrospilus vittatus 2136
Phnigalis pectinicornis 2136
Phnigalis soemius 2136

Populus tremula, Norway 2136

Phyllocoptruta oleivora, predators,

Amblyseius citrifolius 1193

Phyllonorycter corylifoliella, parasitoids 855**Phyllonorycter malella**, parasitoids,

Sympiesis sericeicornis 580

Phyllonorycter mespilella, parasitoids 855**Phyllonorycter ringoniella**

parasitoids, *Holcorthorax testaceipes* 1838
predators, *Harmonia axyridis* 1838

Phyllopertha horticola

biological control, *Heterorhabditis bacteriophora* 983
lawns and turf, Germany 983

Phyllophaga**pathogens**

Bacillus cereus 2587
Pantoea agglomerans 2587

Phylloscopus trochilus**prey**

Chrysomela lapponica 1679
Galerucella lineola 1679
Gonioctena viminalis 1679
Phratra polaris 1679
Phratra vitellinae 1679

Phylogenetics, Cordycepioides bisporus 511**Phylogeny**

Aphidiinae 2031
Braconidae 1885, 2032
Entomophthorales 1175
Lycosidae 1886

Physalis angulata, Heliothis subflexa 1602**Physalis angulata orchards, Cardiochiles nigriceps**, foraging 1602**Physiphora aenea****parasitoids**

Aleochara notula 1759
Aleochara puberula 1759
Eucolidae 1759
Spalangia cameroni 1759
Spalangia endius 1759
Spalangia gemina 1759
Spalangia nigroaenea 1759

Phytomyza orobanchia, Orobanche crenata,

biological control, Egypt 2479

Phytonemus pallidus

biological control, Phytoseiidae 862
predators

Amblyseius andersoni 862
Amblyseius fallacis 862
Metaseiulus occidentalis 862
Neoseiulus californicus 862
Typhlodromus pyri 862

strawberries 862

Phytophthora**antagonists**

Pythium oligandrum 806
Trichoderma harzianum 806
biological control, *Bacillus* 302
greenhouse crops 302

Phytophthora boehmeriae

biological control, *Bacillus* 250
cotton 250

Phytophthora cactorum, antagonists,

Pseudomonas 2066

Phytophthora capsici**antagonists**

bacteria 2574
Pseudomonas fluorescens 1903
Serratia marcescens 816-817
Trichoderma harzianum 1513

biological control

Bacillus, India 323
Trichoderma harzianum, India 323
cucumbers 816

Phytophthora capsici cont.

integrated control, *Trichoderma harzianum*, India 2393

Piper nigrum 323

India 2393

Phytophthora cinnamomi, antagonists,

Pseudomonas 2066

Phytophthora colocasiae**antagonists**

Gliocladium virens 1348
Trichoderma harzianum 1348
Trichoderma viride 1348

Phytophthora cryptogea

antagonists, soil fungi 1699

Gerbera jamesonii 1699

Phytophthora fragariae, antagonists,

Pseudomonas chlororaphis 1559

Phytophthora infestans**antagonists**

Fusarium 121, 1525
Penicillium 121, 1525
Pseudomonas chlororaphis 1559
Serratia 121, 1525
Trichoderma 121, 1525

tomatoes 121

Phytophthora nicotianae

biological control, *Bacillus subtilis* 123
tomatoes 123

Phytophthora nicotianae var. *parasitica***biological control**

Burkholderia gladioli 303
mycorrhizal fungi 2311
Trichoderma 2264
Catharanthus roseus 303
tobacco 2311

Phytolasmas, biological control, rice diseases, China 2146**Phytoseiidae**

Citrus orchards, Cuba 2285

Cuba 2114

Israel 1891

keys 1891

prey

Aculus schlechtendali 1577
Cecidophyopsis ribis 1579
Thysanoptera 2114

Phytoseiulus macropilis

behaviour 2022

cannibalism 2691

prey, *Tetranychus tumidus* 1920

Phytoseiulus persimilis

arthropod pests, biological control 850
behaviour 2022, 2701

biological control, *Tetranychus urticae*, models 2388

cannibalism 2691

feeding behaviour 2697

foraging 1273

horticultural crop fields, Spain 718

movement 1294

pathogens, *Microsporidium phytoseiuli* 1981

plant extracts, nontarget effects 1383
population dynamics 2388

predators, *Neoseiulus californicus* 2693-2694

predatory behaviour 1274

prey

Neoseiulus californicus 2693-2694
Spodoptera exigua 2701
Tetranychus cinnabarinus 1937
Tetranychus kanzawai 2632
Tetranychus urticae 586, 1224, 1269, 1273-1274, 1294, 1327, 1981, 2006, 2384-2385, 2387, 2694

pyriproxyfen, toxicity 451

reproduction 1251, 1981

rose greenhouses, Germany 1705

searching behaviour 1269, 2006, 2016

Tetranychus, biological control, Germany 1705

Tetranychus kanzawai, biological control 1573

Tetranychus urticae

biological control 169, 186, 2388
Switzerland 140

Phytoseiulus finitimus

apple orchards, Egypt 1578

Lebanon 2747

prey, *Cenopalpus pulcher* 1578

- Picea**
Cephalcia abietis, Austria 2366
Heterobasidion annosum 2365
Strobilomyia neanthracina, Canada 975
- Picea abies**
Heterobasidion annosum
 Finland 291
 Sweden 1690
- Picea abies forests**, Hymenoptera, Poland 972
- Picea glauca**, *Zeiraphera canadensis*, Canada 2371
- Picea glauca forests**, Hymenoptera, Canada 2371
- Picea smithiana**, *Dioryctria abietella*, India 292
- Pichia anomala**
 antagonism, *Botrytis cinerea* 995
Penicillium roquefortii, biological control 24, 997
- Pichia guilliermondii**
 antagonism
Penicillium digitatum 2266
Penicillium italicum 216
- Picornaviridae**, hosts, *Perina nuda* 2564
- Pieris**
 parasitoids
Cotesia glomerata 578
Cotesia rubecula 578
- Pieris brassicae**
 biological control, natural enemies, Russia 1502
 Brassicaceae, Russia 1502
 cabbages 1501
 parasitoids
Cotesia 1897
Cotesia glomerata 621, 1501
Cotesia rubecula 1223
- Pieris melele**
 Brassicaceae, Japan 2610
 parasitoids
Cotesia glomerata 2610
Epicaucopocera succincta 2610
- Pieris napi**
 Brassicaceae, Japan 2610
 parasitoids
Cotesia glomerata 2610
Epicaucopocera succincta 2610
- Pieris rapae**
 Brassicaceae 101
 Japan 2610
 broccoli, Mexico 803
 parasitoids
Cotesia glomerata 101, 798, 2610
Cotesia rubecula 105, 597, 644, 1223
Epicaucopocera succincta 2610
 Hymenoptera 105
Lespesia 803
 pathogens, *Ovomermis sinensis* 1500
- Pieris rapae crucivora**
 pathogens
Nosema 1916
Nosema bombycis 1916
- Piezodorus guildinii**
 parasitoids
Telenomus podisi 1205
Trissolcus urichi 772
- Piezodorus hybneri**, parasitoids, *Ooencyrtus nezarae* 2678
- Pigeon pea fields**
 Hymenoptera, India 2172
 predatory arthropods, India 780
 Tachinidae, Brazil 1486
Trichogramma chilonis, intercropping, India 1487
- Pigeon peas**
Fusarium udum 67
Helicoverpa armigera, India 2172
 Pentatomidae, Brazil 1486
- Pila ovata**, *Biomphalaria pfeifferi*, biological control 373
- Pimelia senegalensis**, nontarget effects, entomogenous fungi 2771
- Pimpla contemplator**
 2,4-D, effects 1840
 maleic hydrazide, effects 1840
 mating behaviour 2020
- Pimpla hypochondriaca**, toxins 1305
- Pimpla luctuosa**, feeding behaviour 2666
- Pimpla luctuosa**
 hosts
Galleria mellonella 2682
Manestra brassicae 2682
Mythimna separata 1259
 learning 1259
- Pimpla nipponicus**, sex ratio 2609
- Pimpla turionellae**
 communication 1270
 glycogen 2725
 host-seeking behaviour 579
 hosts, *Archips rosanus* 2250
- Pineapple orchards**, *Pheidole megacephala*, USA 902
- Pineapple plantations**
 beneficial insects, USA 1616
Pheidole megacephala, USA 1616
- Pineapples**
Casnia penelope 212
Dysmicoccus brevipes, USA 1616
Dysmicoccus neobrevipes, USA 902
- Pinnaspis strachani**
 grapefruits, Cuba 1597
 predators
Chilocorus cacti 1597
Chrysopa 1597
- Pinopsida**, *Heterobasidion annosum*, UK 1692
- Pinus**
Bursaphelenchus xylophilus, Japan 294
Diprion pini, Germany 1697
Matsucoccus feytaudi 2367
- Pinus contorta**
Orgyia antiqua, UK 1693
Pissodes terminalis, Canada 300
- Pinus contorta forests**, Braconidae, USA 2370
- Pinus forests**, parasitoids, Germany 1697
- Pinus massoniana**, *Dendrolimus punctatus*, China 299
- Pinus nigra**, *Thaumetopoea pityocampa*, Bulgaria 1698
- Pinus nigra forests**, Hymenoptera, Bulgaria 1698
- Pinus pinaster**, *Thaumetopoea pityocampa*, Portugal 2369
- Pinus sylvestris**
Aradus cinnamomeus, Poland 2360
Diprion pini, Poland 1689
 plant pathogenic fungi 2361
- Pinus taeda**, *Neodiprion taedae linearis* 296
- Pinus thunbergii forests**, predatory arthropods, Korea Republic 947
- Piper beetle**
 arthropod pests
 biological control, Acari, India 2315
 India 2315
Meloidogyne incognita 2323, 2401
 plant pathogens 992
- Piper nigrum**
Phytophthora capsici 323
 India 2393
- Pirimicarb**
 nontarget effects
 Araneae 744
Coccinella septempunctata 2533
 toxicity
 beneficial arthropods 444
 beneficial insects 1116
Episyrphus balteatus 1117
- Pissodes terminalis**
 parasitoids, *Dolichomitrus terebrans nubilipennis* 300
Pinus contorta, Canada 300
- Pistia stratiotes**
 biological control, USA 424
 natural enemies, *Spodoptera pectinicornis* 436
- Pityogenes chalcographus**, parasitoids, *Karpinskiella pityophthori* 2685
- Plagiolipsis pygmaea**, prey, *Chrysoperla carnea* 232
- Planococcus citri**
 biological control 700
 parasitoids 895
- Citrus**
 Australia 209
 Morocco 895
 parasitoids
Anagyrus 209
Chartocerus 209
- Planococcus citri cont.**
 parasitoids cont.
Coccidoxenoides peregrinus 209
Coccophagus 209
Euryishia 209
Leptomastidea abnormis 209
Leptomastix dactylopii 209
Myiocnema comperei 209
Ophelosia 209
 predators, *Spalgis epeus* 933
 South East Asia 700
- Planococcus lilacinus**
 biological control, *Cryptolaemus montouzieri* 1506
 predators, *Spalgis epeus* 933
Sechium edule, India 1506
- Planococcus minor**, predators, *Brumoides suturalis* 1944
- Planotortrix excessana**, biological control, *Bacillus thuringiensis*, New Zealand 1582
- Planotortrix octo**, biological control, *Bacillus thuringiensis*, New Zealand 1582
- Plant diseases**
 biological control 5, 656, 2073
Bacillus 115
 reviews 2758, 2761
- Plant extracts**, nontarget effects, predatory mites 1383
- Plant parasitic nematodes**
 biological control 14, 689, 2784
 bacteria 2785
 reviews 15
 reviews 1387
Trichoderma 1391
Trichoderma viride, interactions 2221
- Plant pathogenic bacteria**, weeds, biological control 2487
- Plant pathogenic fungi**
 antagonists
Bacillus subtilis 1338
Corticium rolfsii 127
Fusarium oxysporum f.sp. *lycopersici* 127
Pythium ultimum 127
Rhizoctonia solani 127
 biological control
Pseudomonas chlororaphis 728
Trichoderma harzianum, reviews 1401
 grain legumes 2163
 weeds, biological control 2487
- Plant pathogens**
 antagonists
Azotobacter chroococcum 1343
Bacillus 1341
Frankia 1341
Pseudomonas 1341
Streptomyces 1341
 biological control 2759
 antagonists 2065
 endophytes 2070
Pseudomonas 125
 reviews 1347
 soil
 biological control 1346
Pseudomonas 652
 vegetables, biological control, reviews 707
- Plant pests**
 biological control
 Araneae 1413
 entomogenous fungi, reviews 2102
 entomopathogens, reviews 715
 predatory insects, books 2099
- Plasmodiophora brassicae**
 antagonists
Bacillus subtilis 655
Phoma glomerata 1496
Pseudomonas fluorescens 655
Streptomyces graminofaciens 655
 biological control
 bacteria, India 99
Heteroconium chaetospora 793
Phoma glomerata 791
Brassica campestris 793
 Brassicaceae 791
 Chinese cabbages, India 99
- Plasmopara viticola**
 biological control, bacteria 166
 grapes 166

- Platycheirus scutatus*, prey, Aphidoidea 502
Platycheirus stegnus, keys, fields, Argentina 1458
- Platygaster contorticornis**
 hosts, *Kaltenbachiola strobili* 972
Picea abies forests, Poland 972
- Platygaster matsutama*, hosts, *Thecodiplosis japonensis* 2364
- Platyphora semiviridi*, biological control, *Solanum mauritianum* 1076
- Platystasius transversus*, hosts, *Phoracantha semipunctata*, Mediterranean Region 1684
- Platythomisus**
 prey
Parlatoria orientalis 994
Pseudococcus gilbertensis 994
- Plautia affinis*, parasitoids, *Trichopoda giacomellii* 2616
- Plautia stali*, pathogens, insect viruses 528
- Plectosporium tabacinum**
 hosts, *Hydrilla verticillata* 1810
Sagittaria, biological control, Korea Republic 393
- Pleiochaeta setosa**
 antagonists, *Bacillus subtilis* 2381
 lupins 2381
- Pleurotus ostreatus**
 Nematoda, biological control 1389
Pseudomonas tolaasii 1710
- Plocaederus ferrugineus**
 cashews, India 2291
 pathogens, *Metarhizium anisopliae* 2291
- Plodia interpunctella**
 biological control, *Trichogramma evanescens*, Germany 2409
 cereal grains, Germany 2409
 parasitoids
Cephalonomia tarsalis 1276
Venturia canescens 1310-1311, 2684, 2699, 2778
 pathogens, Baculoviridae 2778
- Plum orchards**, *Hemisarcoptes coccophagus*, New Zealand 1565
- Plums**
Hyalopterus pruni, Bulgaria 2245
Polystigma rubrum 1550
 Yugoslavia 839
- Plutella xylostella**
 biological control
Bacillus thuringiensis 790
 China 2118
 Mauritius 104
Beauveria bassiana
 Japan 1503
 USA 103
Cotesia plutellae, USA 800
 microbial pesticides 795
 natural enemies 2400
 Russia 1502
- Brassicaceae
 Russia 1502
 USA 103
 broccoli, Mexico 803
 cabbages
 India 1505
 Japan 1503
 USA 800, 1498, 1504
 Chinese cabbages 1508
 food plants, Japan 801
 parasitoids
Aphanogmus manilae 100
Brachymeria excarinata 100
Cotesia plutellae 100, 801, 1284, 1498, 1504, 1924, 2611, 2626
Diadegma insulare 800, 803, 1498, 1862
Diadromus collaris 100, 1112
Diadromus subtilicornis 801
Eurytoma verticillata 100
 Hymenoptera 105
Itopectis naranyae 100
Oomyzus sokolowskii 100, 450, 801, 1293
Trichogramma 100
Trichogramma chilonis 2628
Trichogramma nagarkattii 2628
Trichogramma pretiosum 2628
Trichogramma trjapitzini 2628
Trichogrammatoidea bactrae 2628
Trichomalopsis 100
- Plutella xylostella** cont.
 parasitoids cont.
Trichomalopsis apantloctenus 100
Trichomalopsis shiraki 100
- pathogens
Bacillus thuringiensis 1129, 1319
Bacillus thuringiensis subsp. *bolivia* 2712
Bacillus thuringiensis subsp. *kurstaki* 659
Beauveria bassiana 542, 2781
Erynia radicans 2044
 granulosis viruses 2203
Heterorhabditis 1508
 Nosema 2046
 nuclear polyhedrosis viruses 1225, 2203
Paecilomyces fumosoroseus 1950
 reviews 2769
Steinernema 1508
Steinernema carpocapsae 2643
Vairimorpha 1932
 watercress, USA 795
- Pnigalio**
 aubergine fields, Japan 2220
 Citrus orchards, USA 2283
 hosts
Liriomyza trifolii 2220
Phyllocnistis citrella 898
 population dynamics 2220
- Pnigalio flavipes**
 apple orchards, USA 863
 hosts, *Cydia pomonella* 863
- Pnigalio nemati**
 forests, Irish Republic 961
 hosts, *Pontania proxima* 961
Pontania proxima, interactions 961
- Pnigalio pectinicornis**
 hosts, *Phyllocnistis labyrinthella* 2136
 population dynamics 2136
Populus forests, Norway 2136
- Pnigalio soemius**
 hosts, *Phyllocnistis labyrinthella* 2136
 population dynamics 2136
Populus forests, Norway 2136
- Poa annua**
 biological control
 mycorrhizas 2390
Pseudomonas 756
Xanthomonas campestris, Japan 318
Xanthomonas campestris pv. *poannua* 1061
Xanthomonas translucens pv. *poae* 57
 Japan 57
- Podalonia valida**
 prey, *Estigmene acrea* 2025
 searching behaviour 2025
- Podisus distinctus**, rearing techniques 1149
- Podisus maculiventris**
Chrysodeixis chalcites, biological control, Netherlands 820
 inbreeding 1979
 insecticides, toxicity 1120
 pyriproxyfen, nontarget effects 460
 volatile compounds, effects 2681
- Podisus nigrispinus**
 diets 1873
 life cycle 1211
 parasitoids, *Trissolcus urichi* 772
 pathogens, *Bacillus thuringiensis* subsp. *kurstaki* 1928
 prey
Alabama argillacea 1905
Dione juno 1211
 reproduction 1256
 synthetic diets, rearing techniques 1869
- Podisus rostralis**, reproduction 1245
- Podothrips**, prey, *Parlatoria orientalis* 994
- Poecilia reticulata**, prey, *Culex quinquefasciatus* 355
- Poinsettias**
Aleurodicus dispersus, India 2109
Bemisia argentifolii 989
- Poland**
 Armillaria, biological control, *Hypholoma fasciculare* 278
Cacyreus marshalli, biological control, parasitoids 1703
 Carabidae, wheat fields 467
 Eulophidae, *Carpinus betulus* forests 2355
- Poland** cont.
Heterobasidion annosum, biological control, *Phlebiopsis gigantea* 293
Hyllobius abietis, biological control 949
 Hymenoptera, *Picea abies* forests 972
Macrolophus caliginosus, tomato greenhouses 1532
Melolontha, biological control, *Beauveria brongniartii* 648
 predatory mites, apple stores 1715
 Scarabaeidae, biological control, pathogens 1403
Sinophorus turionus, maize fields 1454
Sitona lineatus, biological control, entomopathogens 2169
Trialeurodes vaporariorum, biological control, *Macrolophus caliginosus* 1532
- Polistes chinensis**
 foraging 1267
 prey, Tenthredinidae 1267
- Polistes instabilis**, prey, Lepidoptera 1281
- Pollenia pediculata**, pathogens, *Strongwellsea* 2433
- Polyalthia longifolia**, *Inglisia bivalvata*, India 276
- Polyalthia pendula**, *Inglisia bivalvata*, India 276
- Polybia**
 prey
Macrosiphum euphorbiae 1531
Myzus persicae 1531
- Polydesmidae**, predators, *Ocyrops similis* 49
- Polydnaviridae**, hosts, *Spodoptera littoralis* 2650
- Polydnavirus**, parasitoids, interactions 631
- Polymerase chain reaction**, *Aphelinus*, detection 1851
- Polymyxa betae**
 biological control 924
 sugarbeet 924
- Polynesia**, *Mesocyclops aspericornis* 1740
- Polypedium rubifer**
 marshes, France 2434
 pathogens, *Bacillus thuringiensis* subsp. *israelensis* 2434
- Polyrhachis dives**, prey, *Matsucoccus matsumurae* 671
- Polystigma rubrum**
 biological control 1550
 mycoparasites, *Glomerella cingulata* 839
 plums 1550
 Yugoslavia 839
- Pome fruits**, insect pests, biological control, Araneae, Hungary, books 2098
- Pomegranate orchards**, *Aphelinidae*, Egypt 214
- Pomegranates**
Deudorix isocrates, India 2281
Siphoninus phillyreae, Egypt 214
- Pongamia pinnata**, *Aleurodicus dispersus*, India 2272
- Pontania proxima**
 parasitoids, *Pnigalio nemati* 961
Pnigalio nemati, interactions 961
Salix fragilis, Irish Republic 961
- Pontederia cordata**, natural enemies, *Ecritotarsus catarinensis* 1081
- Popillia japonica**
 biological control, *Pteridium aquilinum*, USA 1802
 pathogens
Heterorhabditis bacteriophora 1262
Metarhizium anisopliae 2542
Steinernema glaseri 1262, 1309
- Population dynamics**
Anisia serotina 2624
 Anthocoridae 2262
 Araneae 641
 apple orchards, Czech Republic 1844
 beneficial arthropods 1461, 1661
 beneficial insects 1509
 biological control agents, models 471
Candida oleophila, orange orchards, USA 1587
Cirropsilus ingenuus 2284
 Coccinellidae 2294
Heterospilus prosopidis 1316
 Hymenoptera 1318, 2136, 2220
Macrocentrus cingulum, maize fields 745
Mozena obtusa, USA 416

- Population dynamics** *cont.*
parasitoids 2052, 2736-2737, 2774
Phytoseiulus persimilis 2388
predatory insects 1596
Prunus avium plantations, Italy 2354
Syrphidae 2111
Telenomus beneficiens 930
Torymus rubi 871
Trichomalus perfectus 2298
- Population genetics**
granulosis viruses 614
Trichogramma pretiosum 2713
- Populus**
Anoplophora glabripennis, China 1682
Clostera anastomosis, China 960
Gypsonoma aceriana, Bulgaria 2352
Populus deltoides, *Clostera*, India 285
Populus forests, Hymenoptera, Norway 2136
Populus tremula, *Phyllocnistis labyrinthella*, Norway 2136
Populus tremuloides, biological control, *Chondrostereum purpureum* 2462
Portia fimbriata, predation 1995
- Portugal**
Ooencyrtus pityocampae, reproduction 1976
parasitoids, flour mills 1726
Prays oleae, biological control, *Chrysoperla carnea* 2304
Syrphidae 502
- Postharvest decay**
antagonists
Candida oleophila 1589
Cryptococcus laurentii 328
Rhodotorula glutinis 328
biological control
Candida oleophila 192
Debaryomyces hansenii 879
Sweden 1717
yeasts 1558
Citrus 191-192
grapefruits 1589
oranges 879
- Potato fields**
beneficial insects, USA 2193
Coccinellidae, USA 786
Perillus bioculatus, Canada 785
predatory insects, USA 90
Syrphidae, Bulgaria 91
Trichoderma, India 81
- Potato tubers**, *Phthorimaea operculella* 334
- Potatoes**
Agrobacterium radiobacter, rhizosphere 2192
Empoasca fabae, USA 2193
Erwinia carotovora 783
Globodera pallida 93
integrated pest management, Brazil 2186
Leptinotarsa decemlineata, Canada 87, 785
Myzus persicae, USA 786
plant parasitic nematodes 2190
Rhizoctonia solani
India 81
Netherlands 784
Streptomyces scabies 82
Verticillium dahliae 79, 130
- Poultry**, prey, *Dociostaurus maroccanus* 1364
- Poultry farms**, Pteromalidae, hydrocarbons, USA 1767
- Poultry housing**
Beauveria bassiana, USA 382
Typhaea stercorea, Denmark 2441
- Poxviridae**, formulations 1137
- Praleurocerus viridis**, hosts, *Rastrococcus iceryoides* 900
- Praon abjectum**, hosts, *Aphis sambuci* 2732
Praon flavinode, hosts, Aphididae 643
Praon myzophagum, hosts, Aphidoidea 222
Praon peguorum, hosts, *Acyrtosiphon pisum* 2657
- Praon volucre**
host-seeking behaviour 2700
hosts
Aphidoidea 222, 1272
Metopolophium dirhodum 743
Sitobion avenae 2700
Nepeta cataria extracts, attractants 1987
pheromones, effects 1272
- Prays oleae**
biological control, *Chrysoperla carnea*, Portugal 2304
olives
Morocco 917
Portugal 2304
Spain 873
predators
Chrysoperla carnea 917
Coleoptera 873
Formicidae 873
Heteroptera 873
Tapinoma nigerrimum 2296
- Precocene I**, toxicity, *Microplitis rufiventris* 463
- Precocene II**, toxicity, *Microplitis rufiventris* 463
- Predation**
Chrysoperla carnea, cotton fields, USA 1656
Coccinellidae, maize fields, USA 1451
Cybocephalus nipponicus 606
models 2729
Portia fimbriata 1995
Salticidae 1995
Scytodes 1996
- Predator prey relationships**
models 2743
reviews 586
- Predators**
prey, interactions 2702
wheat fields, USA 2143
- Predatory arthropods**
apple orchards, USA 863
cabbage fields, USA 2204
cotton fields
sampling 2342
USA 263, 2342
crop fields 1412
digestion 1302
Lymantria dispar, biological control, Morocco 288
movement, fields, USA 267
Pinus thunbergii forests, Korea Republic 947
prey, Aphididae 863
rearing techniques, greenhouses 1155
rice fields
China 737
India 1429
sugarcane fields, India 1632
tillage, effects 263
tobacco fields, India 2321
transgenic plants, effects 2334
- Predatory behaviour**, *Phytoseiulus persimilis* 1274
- Predatory insects**
mating behaviour 1283
plant pests, biological control, books 2099
prey, *Lymantria dispar* 279
- Predatory mites**
Buxus sempervirens, Belgium 987
pesticides, toxicity 2532
prey, *Cydia pomonella* 863
vineyards, Germany 2256
- Prediction**, biological control, models 2087
- Preservation**, *Bacillus thuringiensis* 1168
- Prey**, predators, interactions 2702
- Pristaulacus compressus**
hosts, *Xiphidria longicollis* 967
Quercus robur forests, Italy 967
- Pristomerus rufiabdominalis**, *Gypsonoma aceriana*, biological control, Bulgaria 2352
- Pristomerus sulci**, hosts, *Pseudohypatopa pulvereae* 347
- Pristomerus vulnerator**, *Gypsonoma aceriana*, biological control, Bulgaria 2352
- Procamburus clarkii**, prey, *Anopheles gambiae* 2426
- Procecidochares connexa**, *Chromolaena odorata*, biological control, Indonesia 423
- Proctolaelaps pomorum**, new geographic records, *Morchella* habitats, Turkey 1714
- Proctolaelaps pygmaeus**, arthropod pests, *Piper belle*, biological control, India 2315
- Proctotrupidae**, *Citrus* orchards, USA 2283
- Proctotrupoidea**, fields, Indonesia 12
- Product development**, *Bacillus thuringiensis* 661
- Production**
Bacillus thuringiensis 1172
biological control agents 2559
Candida sake 1147
- Profenofos**, toxicity, predatory insects 461, 1123
- Profenusa thomsoni**
parasitoids
Lathrolestes luteolator 1680
Trichogramma 1680
- Prolepsis lucifer**, prey, *Eurhizococcus brasiliensis* 1181
- Prometryn**, nontarget effects, *Burkholderia cepacia* 251
- Pronematus ubiquitus**, Lebanon 2747
- Propargite**, nontarget effects, *Amblyseius andersoni* 870
- Propetamphos**, compatibility, *Metarhizium anisopliae* 2442
- Propoxur**, toxicity, *Adalia bipunctata* 1829
- Proprioseiopsis messor**, temperate fruit orchards, Spain 861
- Propylea japonica**
insecticides, toxicity 1111
population dynamics 1461
prey
Schizaphis graminum 1461
Sitobion avenae 1461
transgenic plants, effects 2334
wheat fields, China 1461
- Propylea quatuordecimpunctata**
functional responses, host plants 63
prey, *Diuraphis noxia* 63
USA 1917
- Prorops nasuta**
Hypothenemus hampei
biological control
Colombia 2318
Mexico 2317
survival 2317
- Prosopis cineraria**, *Streblote siva*, India 2348
- Prosopis glandulosa** var. *glandulosa*, natural enemies, *Mozena obtusa* 416
- Prosopis juliflora**, *Streblote siva*, India 2348
- Prosopis juliflora** extracts, nuclear polyhedrosis viruses, interactions 2516
- Prosopis tamarugo**, Lepidoptera, Chile 2357
- Prostephanus truncatus**
biological control
Beauveria 2404
Teretriosoma nigrescens, Togo 339, 1721
maize grain, Togo 338-339
maize products, Togo 1721
parasitoids
Anisopteromalus calandrae 338
Theocolax elegans 338
predators, *Teretriosoma nigrescens* 603, 946, 2138, 2673
- Proteins**, *Euplectrus comstockii* 628
- Protogamasellus discorus**, *Meloidogyne javanica*, biological control 2181
- Protomycopsis phaseoli**
biological control, *Trichoderma* 2164
cowpeas, Nigeria 2164
- Protonectarina**
prey
Macrosiphum euphorbiae 1531
Myzus persicae 1531
- Proutista moesta**, predators, *Marpissa tigrina* 2740
- Prunus**, Aphidoidea, Portugal 1576
- Prunus avium** plantations, predatory insects, population dynamics, Italy 2354
- Psectrocladius psilopterus**, pathogens, *Bacillus thuringiensis* subsp. *israelensis* 2435
- Pseudacteon**
behaviour, host-seeking behaviour 2011
hosts
Linepithema humile 1282
Solenopsis 381
Solenopsis geminata 1195
Solenopsis invicta 1195
Solenopsis richteri 2011
life cycle 381

- Pseudacteon browni***, hosts, *Solenopsis geminata* 1899
- Pseudacteon crawfordi***, hosts, *Solenopsis geminata* 1899
- Pseudacteon curvatus***
Brazil 605
host selection 605
hosts
 Solenopsis geminata 605
 Solenopsis saevissima 605
- Pseudacteon litoralis***
Brazil 605
host selection 605
hosts
 Solenopsis geminata 605
 Solenopsis saevissima 605
prey, *Solenopsis* 1911
- Pseudacteon pradei***
Brazil 605
host selection 605
hosts
 Solenopsis geminata 605
 Solenopsis saevissima 605
- Pseudacteon spatulatus***, hosts, *Solenopsis geminata* 1899
- Pseudacteon tricuspis***
Brazil 605
host selection 605
hosts
 Solenopsis geminata 605
 Solenopsis saevissima 605
prey, *Solenopsis* 1911
- Pseudacteon wasmanni***
Brazil 605
host selection 605
hosts
 Solenopsis geminata 605
 Solenopsis saevissima 605
prey, *Solenopsis* 1911
- Pseudaphycus***, *Buchloe dactyloides* fields, USA 1465
- Pseudaulacaspis pentagona***
biological control
 natural enemies 176
 South Pacific 10
parasitoids, *Encarsia diaspidicola* 2680
peaches, France 176
predators
 Chilocorus bipustulatus 1255
 Cybocephalus nipponicus 2680
- Pseudococcidae**
biological control, *Heterorhabditis bacteriophora*, Cuba 1647
coffee, Cuba 1647
- Pseudococcus gilbertensis***
predators
 Cheiracanthium 994
 Chilocorus nigrita 994
 Jauravia pallidula 994
 Platythomisus 994
- Pseudococcus viburni***
parasitoids, *Leptomastix epona* 1533
predators, *Cryptolaemus montrouzieri* 1533
- Pseudodoros clavatus***, keys, fields, Argentina 1458
- Pseudogonia***
hosts, *Mythimna separata* 1378
India 1378
- Pseudohypatopa pulvereae***
parasitoids, *Pristomerus sulci* 347
prey, *Kerria lacca* 347
- Pseudomonas***
antagonism
 Botryosphaeria stevensii 2066
 Botrytis cinerea 2066
 Cryphonectria parasitica 2066
 Erwinia carotovora 842
 Fusarium 109, 120
 Fusarium oxysporum 842, 1495
 Fusarium oxysporum f.sp. *dianthi* 2066
 Magnaporthe grisea 722, 1299
 Phytophthora cactorum 2066
 Phytophthora cinnamomi 2066
 plant pathogens 1341
 Pythium 109, 120
 Pythium aphanidermatum 1514
 Pythium ultimum 58, 2187
 Rhizoctonia 109, 120
 Rhizoctonia solani 58, 1651, 2187
- Pseudomonas* cont.**
antagonism cont.
 Sclerotinia 842
 Septoria apicola 98
 Bacillus thuringiensis, interactions 1955
 fungal pathogens, biological control 2206
 Fusarium proliferatum, biological control, Taiwan 306
 Meloidogyne incognita, biological control 2194
 plant pathogens, soil, biological control 652
 postharvest decay, biological control 196
 Rhizoctonia solani, biological control 307
- Pseudomonas aeruginosa***
antagonism
 Fusarium oxysporum f.sp. *ciceris* 766
 Pythium splendens 766
 Rhizoctonia solani 2129
 Rosellinia bunodes 932
 Meloidogyne javanica, biological control 834, 2180, 2232
 plant pathogens, biological control 834
- Pseudomonas aureofaciens***
Agrobacterium tumefaciens, biological control 161
antagonism, *Pythium aphanidermatum* 1516
plant pathogens, biological control 125
- Pseudomonas chlororaphis***
antagonism
 Botrytis cinerea 1559
 Cochliobolus sativus 35
 Fusarium oxysporum 1559, 1691
 Gibberella fujikuroi 1691
 Monographella nivalis 35
 Paxillus involutus 1691
 Phytophthora fragariae 1559
 Phytophthora infestans 1559
 Pyrenophora 35
 Pythium ultimum 1559
 Rhizoctonia solani 1559, 1691
 Tilletia tritici 35
 Ustilago 35
 Fusarium oxysporum f.sp. *radicis-lycopersici*, biological control 128
 plant pathogenic fungi
 biological control 728
 Sweden 30
- Pseudomonas corrugata***, antagonism, *Pythium aphanidermatum* 1516
- Pseudomonas fluorescens***
Agrobacterium tumefaciens, biological control 161
Alternaria ricini, biological control 911
antagonism
 Aspergillus niger 1619
 Botrytis cinerea 168, 1552
 Colletotrichum capsici 811
 Corticium rolfii 2763
 Erwinia amylovora 190
 Fusarium oxysporum 1691, 1903, 2325
 Fusarium oxysporum f.sp. *lycopersici* 1517
 Gibberella fujikuroi 1423, 1691
 Macrophomina phaseolina 763
 Magnaporthe grisea 722
 Paxillus involutus 1691
 Phytophthora capsici 1903
 Plasmodiophora brassicae 655
 Pythium 237, 1629
 Pythium ultimum 240, 1521, 1903, 2325
 Rhizoctonia solani 240, 1428, 1691, 1903
 Thielaviopsis basicola 2325
 Verticillium 2327
 biological control, plant pathogenic fungi 2162-2163
 Botrytis cinerea, biological control 308
 Erwinia carotovora subsp. *carotovora*, biological control 113
 formulations 80, 1425
 Fusarium oxysporum f.sp. *cubense*, biological control 1585
 Fusarium solani, biological control 2166
 Glomus mosseae, interactions 1966
 hosts, *Curculio nucum* 1617
 Magnaporthe grisea, biological control, India 732
- Pseudomonas fluorescens* cont.**
plant pathogens, biological control 29, 125
Plasmodiophora brassicae, biological control, India 99
Poa annua, biological control 756
Pythium carolinianum, biological control, Egypt 935
Radopholus similis, biological control 904
Rhizoctonia solani, biological control 22, 80, 1425
Sclerospora graminicola, biological control, India 26
Xanthomonas vesicatoria, biological control, North America 1512
- Pseudomonas mendocina***
Pasteuria penetrans, interactions 2229
Xanthomonas vesicatoria, biological control, North America 1512
- Pseudomonas putida***
antagonism
 Pyrenophora tritici-repentis 2127
 Rhizoctonia solani 2129, 2209
 composting 487
 Poa annua, biological control 756
 Rhizoctonia solani, biological control, India 1427
 Xanthomonas vesicatoria, biological control, North America 1512
- Pseudomonas solanacearum***
biological control, *Bacillus* 2310
tobacco 2310
- Pseudomonas syringae***
antagonism
 Fagopyrum esculentum 21
 Geotrichum citri-aurantii 191
 Penicillium digitatum 191
 Penicillium expansum 843
 Rhodotorula pilimanae 191
 Xanthomonas vesicatoria, biological control, North America 1512
- Pseudomonas syringae* pv. *syringae***, plant pathogenic fungi, biological control 166
- Pseudomonas tolaasii***
antagonists, bacteria 1710
edible fungi 1710
- Pseudopachymerina spinipes***, parasitoids, *Uscana espiniae* 1893
- Pseudoregma bambucicola***
predators
 Eupeodes confrater 993
 Synonyma grandis 993
- Pseudoscytnus tsugae***
Adelges tsugae, biological control, USA 974
life history 1914
prey, *Adelges tsugae* 1914
- Pseudoshirakia***
hosts, *Scirpophaga excerptalis* 241
sugarcane fields, India 241
- Pseudotheraptus wayi***
biological control, *Oecophylla longinoda*, Tanzania 921
coconuts
 Tanzania 921
 Zanzibar 235
predators, *Oecophylla longinoda* 235
- Pseudotsuga menziesii***
Delphacidae, Austria 976
Fusarium, USA 282
Orgyia pseudotsugata, North America 971
- Psilocorsis quercicella***
parasitoids, *Ceraphronidae* 1685
predators, *Lestodiplosis venusta* 1685
Quercus, USA 1685
Quercus forests, USA 1685
- Psoralea corylifolia***, *Sclerotinia sclerotiorum*, India 286
- Psychodidae**
biological control, *Bacillus thuringiensis* subsp. *israelensis* 1763
filter beds, UK 1763
- Psylla***, biological control, *Anthonomus*, Netherlands 2240
- Psyllaephagus pilosus***, *Ctenarytaina eucalypti*, biological control, Irish Republic 990
- Psyllaephagus yaseeni***, *Heteropsylla cubana*, biological control 1670

- Psyllidae**
predators
Orius strigicollis 1402
Orius tanitillus 1402
- Pteridium aquilinum**, *Popillia japonica*, biological control, USA 1802
- Pteromalus**
hosts, *Trupanea wheeleri* 1967
maize grain, USA 340
- Pteromalus medicaginis**
lucerne fields, Hungary 1470
separators 1470
- Pterostichus chalcites**
maize fields, USA 2147
prey, *Delia antiqua* 2147
- Pterostichus cupreus**
behaviour 1289
dimethoate, nontarget effects 1109
fields, Sweden 456
pesticides, nontarget effects 456
prey
Brevicoryne brassicae 1414
Metopolophium dirhodum 1414
Rhopalosiphum padi 1414
Sitobion avenae 1414
- Pterostichus lucublandus**
fields, USA 13
maize fields, USA 2147
prey, *Delia antiqua* 2147
- Pterostichus madidus**
dimethoate, nontarget effects 1109
prey
Brevicoryne brassicae 1414
Deroceras reticulatum 2090
Metopolophium dirhodum 1414
Rhopalosiphum padi 1414
Sitobion avenae 1414
- Pterostichus melanarius**
behaviour 1289
maize fields, USA 2147
prey
Brevicoryne brassicae 1414
Delia antiqua 2147
Metopolophium dirhodum 1414
Rhopalosiphum padi 1414
Sitobion avenae 1414
- Pterostichus niger**
behaviour 1289
dispersal, oat fields, Norway 1445
- Pterostichus permundus**
maize fields, USA 2147
prey, *Delia antiqua* 2147
- Puccinia**, weeds, biological control 2459
- Puccinia abrupta**, *Parthenium hysterophorus*, biological control, Australia 1791
- Puccinia arachidis**
antagonists
Acremonium obclavatum 914
Fusarium chlamydosporum 1345
groundnuts 914
- Puccinia carduorum**
Carduus thoermeri, USA 395
weeds, biological control, USA 2473
- Puccinia jaceae**, *Centaurea solstitialis*, biological control 1062
- Puccinia lagenophorae**, *Senecio vulgaris*, biological control, Switzerland 390
- Puccinia obliqua**, hosts, *Calotropis procera* 2467
- Puccinia psidii**, antagonists, *Bacillus subtilis* 1185
- Puccinia puta**, *Ipomoea carnea*, Brazil 2063
- Pyemotes**, hosts, *Eurytoma amygdali* 906
- Pygostolus falcatus**
hosts, *Sitona cylindricollis* 1244
life history 1244
- Pymetrozine**
toxicity
beneficial insects 1118
parasitoids 1093
- Pyralidae**, parasitoids, *Agrothereutes lanceolatus* 2654
- Pyrenophora**, antagonists, *Pseudomonas chlororaphis* 35
- Pyrenophora avenae**
biological control, *Pseudomonas chlororaphis*, Sweden 30
oats, Sweden 30
- Pyrenophora chaetomioides**
weeds
biological control 1079
Australia 275
- Pyrenophora graminea**
barley, Sweden 30
biological control, *Pseudomonas chlororaphis*, Sweden 30
- Pyrenophora teres**
barley, Sweden 30
biological control, *Pseudomonas chlororaphis*, Sweden 30
- Pyrenophora tritici-repentis**
antagonists
Paenibacillus macerans 2127
Pseudomonas putida 2127
Trichoderma harzianum 2127
Trichoderma vires 2127
wheat 2127
- Pyrethrins**, nontarget effects, *Typhlodromus pyri* 1827
- Pyrethroids**, toxicity, *Trichogramma chilonis* 2522
- Pyrgoides tigrina**, pathogens, *Bacillus thuringiensis* subsp. *tenebrionis* 2636
- Pyrgomorpha cognata**, biological control, *Metarhizium*, Niger 2779
- Pyridaben**, nontarget effects, *Amblyseius andersoni* 870
- Pyrilla perpusilla**
biological control, *Epiricania melanoleuca*, India 243
parasitoids, *Epiricania melanoleuca* 929
sugarcane, India 243, 929
- Pyrproxifen**
nontarget effects
Aphidius ervi 2041
Podisus maculiventris 460
toxicity
beneficial arthropods 451
parasitoids 1093
- Pyrhalla luteola**
biological control
Bacillus thuringiensis subsp. *tenebrionis*, Canada 284
Oomyzus gallerae, USA 287
Steinernema carpocapsae, Canada 284
Ulmus americana, Canada 284
Ulmus procera, USA 287
- Pythium**
antagonists
Actinomyces 120
Azospirillum 109
Bacillus subtilis 109
bacteria 2210
Corynebacterium glutamicum 109
Pseudomonas 109, 120
Pseudomonas fluorescens 237, 1629
rhizobacteria 129
Stenotrophomonas maltophilia 237
Trichoderma 120
Trichoderma harzianum 814
biological control
Bacillus 302
Pythium oligandrum 239
reviews 2760
fruit vegetables, Korea Republic 109
greenhouse crops 302
sugarbeet 237, 239, 1629
tomatoes 814, 2210
- Pythium acanthophoron**, antagonism, *Fusarium culmorum* 2128
- Pythium aphanidermatum**
antagonists
Absidia cylindrospora 2391
Bacillus licheniformis 818
Gliocladium virens 2391
Pseudomonas 1514
Pseudomonas aureofaciens 1516
Pseudomonas corrugata 1516
Trichoderma 818
Trichoderma harzianum 2391
Trichoderma viride 2391
biological control
bacteria 1473
mycorrhizal fungi 2311
cowpeas 1473
cucumbers 1516
tobacco 2311
- Pythium carolinianum**, biological control, *Pseudomonas fluorescens*, Egypt 935
- Pythium mamillatum**
antagonists, *Bacillus* 2161
grain legumes 2161
- Pythium mycoparasiticum**, antagonism, *Fusarium culmorum* 2128
- Pythium oligandrum**
antagonism
Fusarium 806
Fusarium culmorum 2128
Ophiostoma 945
Phytophthora 806
Pythium ultimum var. *ultimum* 1520
Rhizoctonia 806
plant pathogens, biological control 239
Pythium ultimum, biological control 238
Verticillium dahliae, biological control 124
- Pythium periplocum**, antagonism, *Fusarium culmorum* 2128
- Pythium splendens**, antagonists, *Pseudomonas aeruginosa* 766
- Pythium torulosum**
antagonists, *Bacillus cereus* 2208, 2312
tobacco 2312
tomatoes 2208
- Pythium ultimum**
antagonism, plant pathogenic fungi 127
antagonists
Bacillus 2187
Bacillus subtilis 1522, 2325
bacteria 1472
Cladorrhinum foecundissimum 807
Gliocladium virens 1400
Pseudomonas 58, 2187
Pseudomonas chlororaphis 1559
Pseudomonas fluorescens 240, 1521, 1903, 2325
Talaromyces flavus 1400
Trichoderma harzianum 1400
Trichoderma viride 1400
biological control
Pseudomonas 2206
Pythium oligandrum 238
biological control agents, screening 2326
chickpeas 1472
cucumbers 1521
fruit vegetables 2206
sugarbeet 238, 240
- Pythium ultimum** var. *ultimum*, antagonists, *Pythium oligandrum* 1520
- Pythium vexans**
biological control, *Trichoderma* 1711
cardamoms 1711
- Quadrastichus perniciosus**
apples, Australia 867
predators, *Cybocephalus nipponicus* 606
- Quadrastichus**
biology, life cycle 1229
hosts
Liriomyza trifolii 72
Phyllocnistis citrella 1173, 1229
rearing techniques 1173
- Quadrastichus liriomyzae**, hosts, *Liriomyza trifolii* 1702
- Quadria pakistanica**
pathogens, *Verticillium lecanii* 1598
Ziziphus mauritiana, Taiwan 1598
- Quality controls**, biological control agents 492
- Quercus**
Lymantria dispar, USA 289-290, 964, 2356
Psilocorsis quercicella, USA 1685
- Quercus alba**, *Lymantria dispar*, USA 962-963
- Quercus cerris**, *Andricus kollari*, UK 1678
- Quercus falcata**, *Lymantria dispar*, USA 962
- Quercus forests**, beneficial insects, USA 1685
- Quercus petraea**, *Andricus kollari*, UK 1678
- Quercus prinus**, *Lymantria dispar*, USA 962-963
- Quercus robur**
Andricus kollari, UK 1678
Xiphydria longicollis, Italy 967
- Quercus robur forests**, Hymenoptera, Italy 967

Quercus rubra

- Bucculatrix ainsliella*, Canada 970
Lymantria dispar
 Canada 2359
 USA 962

Quercus rubra forests, parasitoids, Canada 2359**Quercus suber**, *Lymantria dispar*, Morocco 288**Quercus velutina**, *Lymantria dispar*, USA 962, 1683**Quinalphos**

- compatibility, *Bacillus thuringiensis* 1842
 nontarget effects

- Beauveria brongniartii* 1115
 parasitoids 1835
Rhynocoris 452
Rhynocoris kumarii 2529
Trichogramma japonicum 1127

toxicity

- Chelonus blackburni* 1107
Microvelia douglasi atrolineata 1128
Rhynocoris fuscipes 464

Rabbit haemorrhagic disease virus, rabbits, biological control, Australia 343**Rabbits**, biological control, rabbit haemorrhagic disease virus, Australia 343**Radicula sylvestris**, *Plutella xylostella*, Japan 801**Radioactive tracers**, *Pareuchaetes pseudoin-sulata*, tracking 1884**Radishes**, *Rhizoctonia solani* 80**Radopholus similis**, biological control, *Pseudomonas fluorescens* 904**Ralstonia pickettii**, antagonism, *Streptomyces scabies* 82**Ralstonia solanacearum**

antagonists

- Actinomycetales 1515
Streptomyces lavendulae 2575
Trichoderma koningii 651

biological control 117

- bacteria 1861
Hedychium gardnerianum, biological control, USA 2463

tomatoes 117, 1515

Ranunculus acris, biological control, *Sclerotinia sclerotiorum* 396**Rape**

- Aphididae, India 234, 236
 Aphidoidea, India 227
Brevicoryne brassicae, Poland 1627
Ceutorhynchus assimilis 1624
 Germany 1626
 UK 2298
 USA 2295

insect pests, Belarus 919

- Meligethes aeneus*, Germany 2297

Rape fields

- Coccinella septempunctata*, India 234
 Diptera, Germany 912
Eupeodes, India 234
Trichomalus perfectus, USA 2295

Rape pests, natural enemies, Europe 1625**Raphanus raphanistrum**, Pentatomidae, Brazil 1486**Raphanus raphanistrum fields**, Tachinidae, Brazil 1486**Raspberries**

- Agrobacterium tumefaciens* 161
Anastrepha suspensa 175
Choristoneura rosaceana, Canada 2249, 2258

- Diastraphus rubi*, Italy 871

- Tetranychus urticae*, Chile 868

Rastrococcus iceryoides

- guavas, India 900

- parasitoids, *Praleurocerus viridis* 900

Rearing techniques

- Agriaspis citricola* 495
Anastatus 1866
Aphidius colemani 1153
Biosteres arisanus 1158
Catolaccus grandis 496, 1871
Cheilomenes sexmaculata 1148
Chrysopa pallens 2556
Chrysoperla carnea 1162, 1878
Chrysoperla rufilabris 494
Delphastus catalinae 1865
Diadegma insulare, diets 1862
Edovum putleri 497, 1881

Rearing techniques cont.

- Eulophidae 1173
Exorista larvarum 1171
Goniozus nephantidis 2551
 Hymenoptera 1161, 1498
 natural enemies 1864
Orius tantillus 1876
Podisus distinctus 1149
Podisus nigripinus, synthetic diets 1869
 predatory arthropods, greenhouses 1155
 Reduviidae 491
 reviews 2557
Romanomeris iyengari 1757
Roptrocercus xylophagorum 2553
 Staphylinidae 2555
 Syrphidae 1166
 Tachinidae 1868
Trichogramma 488, 1156-1157, 1165
Trichogramma dendrolimi 1978
Trichogramma ostrinae 1880
Trichogramma pretiosum, synthetic diets 1874

Recilia dorsalis, parasitoids, *Gonatopus* 1895**Redescriptions**, *Coccophagus gossypariae* 1896**Reduviidae**

- prey, *Corcyra cephalonica* 491
 rearing techniques 491

Relative humidity, *Erynia radicans* 1965**Release**

- Dinarmus basalis* 2552
 nuclear polyhedrosis viruses, genetic engineering 1683

Release techniques

- Chrysoperla rufilabris* 1145
Trichogramma chilonis 2541

Reoviridae, formulations 1137**Replant disease**, apples, Canada 1549**Reports**, International Institute of Biological Control 692**Reproduction**

- Amblyseius nicholsi* 1192
Cephalonomia hyalinipennis 1236
Coccinella 567
 Eulophidae 2614
Hemisarcophaga cooremani 1983
Hylobius transversovittatus 1982
 Hymenoptera 1980
Lysiphlebia mirzai 1247, 2150
Mythimna unipuncta 2652
Ooencyrtus ptyocampae, Europe 1976
 parasitoids, models 1957
Phytoseiulus persimilis 1251, 1981
Podisus nigripinus 1256
Podisus rostralis 1245
Steinernema arenarium 2656
Trichogramma bouarachae 1248
Trichogramma pretiosum 2651
Typhlodromus occidentalis 1251

Reproductive behaviour

- parasitoids 2724
Venturia canescens 2684

Research

- insect viruses 1382

- parasitoids, ecology 2734

Restaurants, *Blattella germanica*, Denmark 2440**Restriction fragment length polymorphism**, insect viruses, characterization 1856**Reticulitermes flavipes**

- Canada 2058

- pathogens, *Antennopsis gallica* 2058

Retroviridae, hosts, *Trichosurus vulpecula* 2413**Reviews**

- allelopathy, weeds 2498
Bemisia tabaci, natural enemies, Cuba 1419
 biological control 2084
 arthropod pests, pome fruits 2252
 risks 1326
 Sweden 686
 biological control agents 1329
 biotechnology 1340
 soil bacteria 2068
Burkholderia cepacia 657
Coccinellidae 660
 crops, diseases, biological control 1

Reviews cont.

- forest pests
 biological control
 entomopathogens, North America 1665
 USA 1664
Frankliniella occidentalis, biological control 704
Hypera postica, biological control, North America 1471
 insect pests
 biological control
 entomophilic nematodes 690
 parasitoids 672
 integrated pest management, Europe 1087
Lymantria dispar, biological control, *Entomophaga maimaiga*, North America 1663
Meloidogyne, biological control, *Pasteuria penetrans* 2117
 mycorrhizas, biological control 2067
 nematophagous fungi 1392
 parasitoids
 insect communities 2738
 life history 1228
Pasteuria 2746
 plant diseases, biological control 2758, 2761
 plant parasitic nematodes
 biological control 1387
 bacteria 15
 plant pathogenic fungi, biological control, *Trichoderma harzianum* 1401
 plant pathogens
 biological control 1347
 vegetables, biological control 707
 plant pests
 biological control
 entomogenous fungi 2102
 entomopathogens 715
Plutella xylostella, pathogens 2769
 predator prey relationships 586
Pythium, biological control 2760
 rearing techniques 2557
 stored products pests, integrated control, natural enemies 2406
 Thripidae, biological control 708
Trichoderma 2071
 weeds, biological control 387
 wood destroying fungi, biological control 2403

Revisions

- Cecoxenus* 2569
Encarsia 1182
Sigmophora 2571

Reynoutria sachalinensis extracts, nontarget effects, *Trichogramma cacaeciae* 2535**RH-5849**, nontarget effects, *Aphidius ervi* 2041**Rhagoletis juglandis**

- Juglans major*, USA 221
 parasitoids, *Biosteres juglandis* 221

Rhammatocerus schistocercoides

- biological control, *Metarhizium anisopliae*, Colombia 1408

- pathogens, *Metarhizium flavoviride* 1640

Rhinocoris fuscipes, prey, *Stephanitis* 1622**Rhinocyllus conicus**

- Carduus nutans*, biological control, New Zealand 432

- Cirsium*, biological control, USA 420

- weeds, biological control, USA 2473

Rhipicephalus sanguineus

- pathogens
Beauveria bassiana 1774, 1783
Heterorhabditis bacteriophora 1771
Metarhizium anisopliae 1774, 1783
Steinernema carpocapsae 1771
Steinernema feltiae 1038, 1771
Steinernema glaseri 1771
Steinernema riobrave 1038, 1771

Rhizobacteria

antagonism

- Fusarium oxysporum* f.sp. *lycopersici* 129
Pythium 129
Rhizoctonia solani 129
Sclerotinia sclerotiorum 129

- Rhizobium**
antagonism
 Fusarium solani 4, 1478
 Macrophomina phaseolina 4
 Rhizoctonia solani 4
- Rhizobium meliloti**, *Meloidogyne javanica*, biological control 78
- Rhizobium trifolii**
antagonism
 Fusarium solani 2299
 Macrophomina phaseolina 2299
 Rhizoctonia solani 2299
- Rhizoctonia**
antagonism, *Rhizoctonia solani* 97, 2209
antagonists
 Actinomycetales 120
 Azospirillum 109
 Bacillus subtilis 109
 Corynebacterium glutamicum 109
 Pseudomonas 109, 120
 Pythium oligandrium 806
 Trichoderma 120
 Trichoderma harzianum 806
fruit vegetables, Korea Republic 109
- Rhizoctonia solani**
Ambrosia grayi, biological control, USA 397
antagonism
 plant pathogenic fungi 127
 Trichoderma 2037
antagonists
 Bacillus 2187
 Bacillus amyloliquefaciens 2209
 Bacillus subtilis 19, 1630, 2188
 bacteria 34, 2072
 Bradyrhizobium 4, 2299
 Burkholderia cepacia 19, 1691
 Cladorrhinum foecundissimum 807
 Gliocladium virens 112, 1400, 2579
 Memmoniella echinata 2299
 Paecilomyces lilacinus 2299
 Pseudomonas 58, 1651, 2187
 Pseudomonas aeruginosa 2129
 Pseudomonas chlororaphis 1559, 1691
 Pseudomonas fluorescens 240, 1428, 1691, 1903
 Pseudomonas putida 2129, 2209
 rhizobacteria 129
 Rhizobium 4
 Rhizobium trifolii 2299
 Rhizoctonia 97, 2209
 Stachybotrys atra 2299
 Stachybotrys elegans 1300
 Senotrophomonas maltophilia 59, 2129
 Streptomyces violaceusniger 1464
 Talaromyces flavus 1400
 Trichoderma 1528
 Trichoderma hamatum 112
 Trichoderma harzianum 3, 64, 443, 812, 1295, 1400, 1497, 1848, 2100, 2122-2123, 2299, 2361
 Trichoderma koningii 1497
 Trichoderma longibrachiatum 443, 2122
 Trichoderma virens 1650
 Trichoderma viride 3, 812, 1400, 1497, 2123, 2361
 Verticillium biguttatum 2100, 2313
biological control
 antagonists 68
 Bacillus 729
 Bacillus subtilis 2196
 India 27
 bacteria 80
 Burkholderia cepacia, USA 251
 fungi 69
 Gliocladium virens 307
 Pseudomonas 307, 2206
 Pseudomonas fluorescens 22, 29, 1425
 Pseudomonas putida, India 1427
 rice diseases, China 2146
 Trichoderma, India 81
 Trichoderma harzianum 66
 Trichoderma koningii 1481
 Trichoderma viride, India 27
 Verticillium biguttatum, Netherlands 784
cabbages 2196
- Rhizoctonia solani** cont.
cabbages cont.
 USA 97
crops 3
 Festuca arundinacea, USA 59
fruit vegetables 2206
golf courses 307
hosts, *Bactrocer a cucurbitae* 2234
 Macrotyloma uniflorum 68
 Phaseolus vulgaris 69
 Phaseolus vulgaris seeds 1481
 Pinus sylvestris 2361
potatoes
 India 81
 Netherlands 784
radishes 80
rice 19, 22, 29, 34
 India 27, 1425
 soyabeans 66
 sugarbeet 240
 tobacco, Italy 2313
 vegetables 812
- Rhizopus**, antagonism, *Sclerotinia sclerotiorum* 1344
- Rhizopus oryzae**, hosts, *Dysdercus cingulatus* 2329
- Rhizopus stolonifer**
apples 332
 biological control, *Candida sake* 332
- Rhizosphere**, *Agrobacterium radiobacter*, potatoes 2192
- Rhodnius prolixus**, pathogens, *Beauveria bassiana* 371, 1041, 1773
- Rhodnius robustus**, pathogens, *Beauveria bassiana* 1041
- Rhodotorula**, antagonism, *Monilinia fructicola* 330
- Rhodotorula glutinis**
antagonism
 Penicillium expansum 843
 postharvest decay 328
plant pathogenic fungi, biological control 165
- Rhodotorula gracilis**
antagonism, Zygomycotina 2576
antagonists
 Bacillus bombycis 2418
 Bacillus thuringiensis subsp. *den-drolimus* 2418
 Bacillus thuringiensis subsp. *galleriae* 2418
 Serratia marcescens 2418
- Rhodotorula pilimanae**, antagonists, *Pseudomonas syringae* 191
- Rhopalomyia**, *Tripleurospermum perforatum*, biological control, Europe 1799
- Rhopalosiphum maidis**
parasitoids, *Lysiphlebia mirzai* 1243, 1247, 2010
predators
 Cheilomenes sexmaculata 2588
 Coccinella septempunctata 2588
 Coccinella transversalis 2588
 Orius insidiosus 1432
- Rhopalosiphum padi**
parasitoids
 Aphelinus abdominalis 604
 Aphidius rhopalosiphi 2703
 Aphidius uzbekistanicus 50
 Dendrocerus carpenteri 50
predators
 Allothrombium ovatum 705
 Cantharidae 1450
 Carabus violaceus 1414
 Harpalus rufipes 1414
 Nebria brevicollis 1414
 Pterostichus cupreus 1414
 Pterostichus madidus 1414
 Pterostichus melanarius 1414
 Trochosa ruficola 1414
 wheat, Germany 1450
- Rhopobota naevana**, host-seeking behaviour 1261
- Rhopus nigroclavatus**
Buchloe dactyloides fields, USA 1465, 1467
hosts
 Tridiscus sporoboli 1467
 Trionymus 1467
- Rhyacionia buoliana**
hosts, *Rhyacionia buoliana* 1893
- Rhyacionia buoliana** cont.
parasitoids, *Rhyacionia buoliana* 1893
- Rhynchophorus helophori**, hosts, *Helophorus* 2565
- Rhynchophorus ferrugineus**
biological control 1088
pathogens, yeasts 1367
- Rhynchosporium alismatis**
Alismataceae, biological control 2502
 Damasonium minus, biological control 433, 2508
- Rhynocoris fuscipes**
insecticides
 nontarget effects 452
 toxicity 464
- Rhynocoris kumari**, insecticides, nontarget effects 452
- Rhynocoris kumarii**, insecticides, nontarget effects 2529
- Rhynocoris marginatus**
blood composition, India 2043
cotton pests, biological control 1660
insecticides, nontarget effects 452
prey
 Helicoverpa armigera 2675
 Spodoptera litura 2675
- Rhyssella approximata**
hosts, *Xiphidria longicollis* 967
 Quercus robur forests, Italy 967
- Rhyssomatus marginatus**, *Sesbania punicea*, biological control, South Africa 407
- Rhytidodera bowringii**
biological control, *Beauveria bassiana*, China 205
mangoes, China 205
- Rhyzobius forestieri**
hedges, Italy 968
prey, *Ceroptastes japonicus* 968
- Rhyzobius satelles**, *Pseudaulacaspis pentagona*, biological control 176
- Rhyzopertha dominica**
pathogens, *Beauveria bassiana* 2149
rice commodities 2149
- Rice**
biological control 1422
 Gibberella fujikuroi 31, 2120
insect pests
 China 2142
 natural enemies 41
 integrated pest management, India 1816
 Lepidoptera, India 747
 Leptocoris chinensis, Japan 736
 Magnaporthe salvinii 731
 Nilaparvata lugens
 China 1457, 2141
 India 40
 Oxya nitidula, India 1431
 Paraponyx stagnalis, Vietnam 734
plant pathogens 29
 biological control, *Xanthomonas oryzae* pv. *oryzae*, China 28
Rhizoctonia solani 19, 22, 34
 India 27, 1425
Scirpophaga incertulas 2028
 India 1459
 Sogatella furcifera, India 741
weeds
 Japan 2151
 Korea Republic 393
 Xanthomonas oryzae pv. *oryzae* 730, 1420
 China 25
- Rice commodities**, stored products pests 2149
- Rice fields**
Araneae
 India 724, 2140
 Pakistan 1437
beneficial arthropods, India 1429
beneficial insects, India 1459
Hymenoptera, China 1457
Lycosa pseudoannulata, Indonesia 47
parasitoids, India 748
predatory arthropods
 China 737
 India 52, 1447
 Tenodera angustipennis, Japan 1436
- Rice grain**, stored products pests, Guinea-Bissau 1727
- Ricinus communis**
Alternaria ricini 911

- Ricinus communis** cont.
Rotylenchulus reniformis 155
Tetranychus dellaris, India 2514
- Rigidoporus lignosus**
 biological control 319
Hevea brasiliensis 319
- Riptortus clavatus**
 parasitoids
Gryon japonicum 76
Gryon nigricorne 76
Ooencyrtus nezarae 76, 2678
 soybeans, Japan 76
- Riptortus linearis**, parasitoids, *Gryon nigricorne* 2175
- Risk**, *Bacillus thuringiensis* 2764
- Risk assessment**, biological control 647
- Risks**, biological control, reviews 1326
- Rivers**
 Simuliidae, West Africa 1749
Simulium chutteri, South Africa 1762
- Roadsides**, Carabidae, USA 1449
- Rodents**
 biological control 2093
Clostridium botulinum, China 342
 integrated control, cats, Guinea-Bissau 1727
 rice grain, Guinea-Bissau 1727
- Rodolia**
 mandarin orchards, India 1596
 population dynamics 1596
 prey, Homoptera 1596
- Rodolia amabilis**
 mandarin orchards, India 1596
 population dynamics 1596
 prey, Homoptera 1596
- Rodolia cardinalis**
Icerya, biological control 882
 insecticides, toxicity 1118
- Rodolia limbata**, *Icerya*, biological control 882
- Rodolia pumila**, *Icerya*, biological control 882
- Romalea microptera**, parasitoids, *Anisia serotina* 2624
- Romania**
Coccinella septempunctata, *Capsicum annuum* fields 825
Myzus persicae, biological control, *Coccinella septempunctata* 825
Peribatodes rhomboidaria, biological control, *Bacillus thuringiensis* subsp. *kurstaki* 181
- Romanomeris iyengari**
Anopheles pseudopunctipennis
 biological control 1757
 Mexico 2420, 2424
 hosts, *Aedes aegypti* 2430
 rearing techniques 1757
- Rostricornus xylophagorum**, rearing techniques 2553
- Rosa multiflora**, biological control, rose rosette disease 1060
- Rosa rugosa**, *Diplolepis fukudae*, Japan 1708
- Rose fields**, *Phlaeothrips anacardii*, India 979
- Rose greenhouses**, natural enemies, Germany 1705
- Rose rosette disease**, *Rosa multiflora*, biological control 1060
- Rosellinia bunodes**
 antagonists
Burkholderia cepacia 932
Pseudomonas aeruginosa 932
 coffee 932
- Roses**
 arthropod pests, Germany 1705
Aulacorthum solani, Europe 310
Botrytis cinerea 308
Frankliniella occidentalis 986
 Croatia 1707
 USA 314
Tetranychus urticae, Colombia 2385
- Rotylenchulus reniformis**
 biological control, *Paecilomyces lilacinus* 155
 vegetables 155
- Rubus**, *Spilomena* 838
- Rubus glandulosus**, *Cronartium ribicola* 1548
- Rubus inermis**, biological control,
Phragmidium violaceum, Australia 2480
- Rubus parviflorus**, biological control, *Gibberella avenacea*, Canada 399
- Rubus polyanthemus**, biological control,
Phragmidium violaceum, Australia 2480
- Rubus spectabilis**, biological control, *Gibberella avenacea*, Canada 399
- Rubus strigosus**, biological control, *Gibberella avenacea*, Canada 399
- Rumex**, biological control, *Brachycaudus rumexicolens* 1075
- Rumex crispus**, biological control, *Glomerella cingulata*, Korea Republic 403
- Rusostigma eugeniae**, predators, *Jauravia hanifi* 510
- Russia**
Adalia bipunctata 1930
Eurygaster integriceps, wheat 43
Harmonia axyridis 1314
Hyphantria cunea, natural enemies 719
 insect pests, biological control, natural enemies 1502
 natural enemies, apple orchards 1562
 parasitoids, apple orchards 837
 plant diseases, biological control 656
Telenomus, wheat fields 43
Trapa, biological control, insects 2506
Saccharicoccus sacchari, predators, *Cecoxenus persipaci* 2569
- Saccharomyces cerevisiae**
 antagonism
Botrytis cinerea 327
Colletotrichum capsici 808, 811
- Safety**, *Fusarium oxysporum* 2754
- Safflower fields**, Coccinellidae, India 1621
- Sagittaria pygmaea**
 biological control, *Plectosporium tabacinum*, Korea Republic 393
 rice, Korea Republic 393
- Sagittaria trifolia**
 biological control, *Plectosporium tabacinum*, Korea Republic 393
 rice, Korea Republic 393
- Saissetia oleae**
 olives, Spain 2306
 parasitoids
Metaphycus hageni 2306
Metaphycus helvolus 918
 predators, Coccinellidae 918
- Salina**
 predators
Hylyphantes graminicola 48
Pardosa pseudoannulata 48
- Salinity**, *Heterorhabditis* 2745
- Salix fragilis**, *Pontania proxima*, Irish Republic 961
- Salmonellosis**, biological control 383
- Salsola kali**, biological control, arthropods 1807
- Salticidae**
 predation 1995
 predators
Scytodes 1996
Trypoxylon politum 2780
- Salvinia molesta**, biological control, insects 2510
- Samea multiplicalis**, *Salvinia molesta*, biological control 2510
- Sampling**
 beneficial insects, cotton fields 2343
 natural enemies, tomato pests 830
Neozygites fresenii 273
- Sarcophaga**, pathogens, *Strongwellsea* 2433
- Sarcophaga bullata**
 parasitoids
Muscidifurax zaraptor 1017
Nasonia vitripennis 1017
Trichomalopsis americana 1017
- Sarcophagula**
 parasitoids
Aleochara notula 1759
Aleochara puberula 1759
Eucoilidae 1759
Spalangia cameroni 1759
Spalangia endius 1759
Spalangia gemina 1759
Spalangia nigroaenea 1759
- Sasa**, *Schizotetranychus longus*, Japan 1961
- Scandinavia**, *Ephestia kuehniella*, biological control, *Blattisocius tarsalis* 1723
- Scarabaeidae**
 biological control
 parasitoids, Australia 1676
 pathogens, Poland 1403
Eucalyptus, Australia 1676
 insecticides, nontarget effects 455
- Scatella stagnalis**, parasitoids, *Aphaereta debilitata* 675
- Scellionidae**, *Buchloe dactyloides* habitats, USA 982
- Sceliphron caementarium**
 habitats, USA 2780
 prey
Misumenops oblongus 2780
Neoscona arabesca 2780
 Thomisidae 2780
- Schinus terebinthifolius**
 biological control
Heteroperrevia hubrichi
 Brazil 1069
 USA 1069
- Schistocerca cancellata**
 pathogens
Entomopoxvirus 669
Johenrea locustae 669
Malaoeba locustae 669
- Schistocerca gregaria**
 pathogens
Heterorhabditis megidis 2727
Metarhizium anisopliae 2779
Metarhizium anisopliae var. *acridum* 2039
Steinernema feltiae 2727
- Schizaphis graminum**
 biological control, *Lysiphlebus testaceipes* 746
 parasitoids
Aphidius 1461
Lysiphlebus testaceipes 2670
 predators
Harmonia axyridis 1968
Hylyphantes graminicola 1461
Propylea japonica 1461
Scymnus argentatipennis 2621
Syrphidae 1461
 sorghum 746
 wheat, China 1461
- Schizocosa**
 grasslands, USA 1003
 prey
Ageneotettix deorum 1003
Melanoplus sanguinipes 1003
Phoetolotes nebrascensis 1003
- Schizocosa ocreata**
 foraging 1290
 prey, Gryllidae 1290
- Schizonotus sieboldi**
 Czech Republic 1201
 hosts, *Chrysomela vigintipunctata* 283, 1201
- Schizotetranychus longus**
 behaviour 1961
 predators, *Typhlodromus bambusa* 1961
 Sasa, Japan 1961
- Schoenomyza litorella**, pathogens, *Strongwellsea* 2433
- Sciariidae**, biological control, *Steinernema feltiae*, Northern Ireland 324
- Sciota divisella**, *Euphorbia esula*, biological control 409
- Scirpophaga excerptalis**
 parasitoids, *Pseudoshirakia* 241
 sugarcane, India 241
- Scirpophaga incertulas**
 natural enemies 747
 parasitoids
Telenomus dignoides 1459
Trichogramma japonicum 1459
 pathogens
Bacillus polymyxa 2028
Bacillus thuringiensis 2619
Bacillus thuringiensis subsp. *kurstaki* 2028
 predators
Conocephalus longipennis 1459
Cyrtorhinus lividipennis 1459
Harmonia octomaculata 1459
Lycosa pseudoannulata 1459
Oxyopes javanus 1459

- Scirpophaga incertulas** *cont.*
 predators *cont.*
Tetragnatha maxillosa 1459
 rice 2028
 India 747, 1459
- Scirpophaga innotata**
 natural enemies 747
 rice, India 747
- Scirpus juncoides**
 biological control, ducks, Japan 2151
 rice, Japan 2151
- Scirtothrips citri**
Citrus 892
 predators
Euseius tularensis 892
Iphiseius degenerans 892
Neoseiulus barkeri 892
Neoseiulus cucumeris 892
- Scirtothrips manihoti**, predators, *Amblyseius citrifolius* 1193
- Scleroderma guani**, *Semanotus bifasciatus* *sinoauster*, biological control, China 977
- Sclerospora graminicola**
 biological control, *Pseudomonas fluorescens*, India 26
Pennisetum glaucum, India 26
- Sclerotinia**, antagonists, *Pseudomonas* 842
- Sclerotinia homoeocarpa**
Agrostis stolonifera var. *palustris*, Canada 2380
 antagonism, *Sclerotinia homoeocarpa* 2380
 antagonists
Sclerotinia homoeocarpa 2380
Streptomyces violaceusniger 1464
- Sclerotinia minor**
 antagonists
Coniothyrium minitans 2100
Trichoderma atroviride 1096
Trichoderma virens 915
Trichoderma viride 1096
 sunflowers 915
- Sclerotinia sclerotiorum**
 antagonism
Chaetomium globosum 515
Gliocladium roseum 515
Trichoderma harzianum 515
Trichoderma koningii 515
 antagonists
Aspergillus 1344
Coniothyrium minitans 569, 792, 2100
Fusarium 1344
Mucor 1344
Penicillium 1344
 rhizobacteria 129
Rhizopus 1344
Trichoderma harzianum 769
Trichoderma koningii 651
Trichoderma viride 1344
 biological control
 antagonists 2165
 antagonists 2790
Gliocladium virens 286
Pseudomonas 2206
Trichoderma harzianum 96, 286
 chickpeas 2165
 chicory 96
Cirsium arvense, biological control, New Zealand 2469
 fruit vegetables 2206
 hosts, *Ambrosia artemisiifolia* 1788
 lettuces 792
Psoralea corylifolia, India 286
Ranunculus acris, biological control 396
- Sclerotium cepivorum**
 antagonists, *Gliocladium catenulatum* 1494
 biological control, antagonists 2195
 garlic 2195
 onions, Ghana 1494
- Sclerotium rolfii**
 antagonists
Trichoderma hamatum 2580
Trichoderma harzianum 2580
Trichoderma koningii 2580
- Scolothrips longicornis**
 cucumber fields, Hungary 831
 prey
 Miridae 831
- Scolothrips longicornis** *cont.*
 prey *cont.*
Tetranychus urticae 831
Thrips tabaci 831
- Scolothrips sexmaculatus**
 crop fields, Bulgaria 713
 prey
Tetranychus turkestani 713
Tetranychus urticae 713
- Scolytidae**
 biological control, Hymenoptera, Spain 1686
 predators, *Medetera* 2346
Ulmus, Spain 1686
- Screening**, *Pythium ultimum*, biological control agents 2326
- Scutellista caerulea**
Annona squamosa orchards, India 2282
 hosts, *Parasaissetia nigra* 2282
- Scutobruca ceratiborus**, parasitoids, *Uscana espiniae* 1893
- Scymnus**
 cotton fields, Egypt 1657-1658
 methomyl, nontarget effects 1658
 prey
Aphis gossypii 1658, 2627
Macrosiphum euphorbiae 1531
Myzus persicae 1531
- Scymnus argentinicus**, prey, *Schizaphis graminum* 2621
- Scymnus interruptus**, wheat fields, Egypt 1456
- Scymnus pyrocheilus**
 mandarin orchards, India 1596
 population dynamics 1596
 prey, Homoptera 1596
- Scymnus tachengius**
 new species 46
 wheat fields, China 46
- Scymnus trukensis**
 biology 1203
 prey, *Pentalonia nigronervosa* 1203
- Scytodes**
 predation 1996
 prey, Salticidae 1996
- Searching behaviour**
Aphidius colemani 1277
Cephalonomia tarsalis 1276
Chrysoperla carnea 607, 2674
Coccinella undecimpunctata 607
Coleomegilla maculata 88
Encarsia lutea 607
 entomophilic nematodes 2243
Eretmocerus mundus 607
Leptopilina boulardi 1985
Nabis roseipennis 573
Orius majusculus 2014
Phytoseiulus persimilis 1269, 2006, 2016
Podalonia valida 2025
Trichomalus perfectus 2013
Trybliographa rapae, models 1278
- Seasonal abundance**, *Pediobius foveolatus*, aubergine fields, India 1535
- Seasonal cycle**, Carabidae, apple orchards, Hungary 1571
- Seasonal fluctuations**, Mymaridae, fields, Mexico 1434
- Sechium edule**, *Planococcus lilacinus*, India 1506
- Secretions**
Chelonus inanitus 2726
Eulophus pennicornis 2723
- Seed predation**, *Harpalus rufipes*, USA 89
- Seed predators**
 food plants
Centaurea nigra 427
Hypericum perforatum 427
Tragopogon dubius 427
- Seedborne organisms**, biological control, antagonists 295
- Seeds**, biological control 1718
- Segestidea novaeguineae**
 oil palms, Papua New Guinea 233
 parasitoids, *Stichotrema dallatorreanum* 233
- Seiulus finlandicus**
 apple stores, Poland 1715
 behaviour 2022
 cannibalism 2658, 2691
 cucumber fields, Hungary 831
 environmental factors 1200
- Seiulus finlandicus** *cont.*
 feeding behaviour 2697
 Phytoseiidae, interspecific competition 1313
 prey
 Miridae 831
Panonychus ulmi 1313
Tetranychus urticae 831
Thrips tabaci 831
Tetranychus urticae, biological control, Hungary 831
- Semanotus bifasciatus sinoauster**
 biological control, *Scleroderma guani*, China 977
Cunninghamia lanceolata, China 977
- Semiolacher petiolatus**
 hosts, *Phyllocnistis citrella* 1599
 orange orchards, Italy 1599
- Semiochemicals**, *Aphidius rhopalosiphii* 2703
- Semotilus atromaculatus**, prey, Chironomidae, Sweden 1766
- Senecio jacobaea**, biological control 2489
- Senecio vulgaris**, biological control, *Puccinia lagenophorae*, Switzerland 390
- Senegal**, *Meloidogyne mayaguensis*, biological control, *Arthrobotrys oligospora* 2228
- Sense organs**, *Trybliographa rapae* 563
- Separators**, Hymenoptera 1470
- Septoria apicola**
 antagonists
Bacillus 98
Pseudomonas 98
Sporobolomyces 98
 celery 98
- Septoria hodgesii**
 hosts, *Myrica faya* 1790
 new species 1790
- Serangium parcesetosum**
 prey
Aleurothrixus floccosus 1964
Bemisia tabaci 1964
Dialeurodes citri 1964
Paraleurodes minei 1964
- Serangium serratum**
 new species 2567
 predators, *Heteropsylla cubana* 2567
- Sergentomyia schwetzi**, pathogens, *Bacillus sphaericus* 1040
- Serratia**, antagonism, *Phytophthora infestans* 121, 1525
- Serratia liquefaciens**
 antagonism, *Botrytis cinerea* 841
 hosts, *Acheta domesticus* 534
- Serratia marcescens**
 antagonism
Phytophthora capsici 816-817
Rhodotorula gracilis 2418
 hosts
Acheta domesticus 1307
Blattella germanica 2440
Curculio nucum 1617
- Serratia marcescens**, *Meloidogyne incognita*, biological control 188
- Sesame**, *Fusarium oxysporum* f.sp. *sesami*, India 225
- Sesamia calamistis**
 parasitoids
Cotesia flavipes 2002
Cotesia sesamiae 1189, 2002
- Sesamia inferens**
 natural enemies 747
 rice, India 747
- Sesamia nonagrioides**, parasitoids, *Teleonomus busseolae* 1254, 1279
- Sesbania exaltata**, biological control, pathogens 2487
- Sesbania punicea**, biological control, Curculionidae, South Africa 407
- Setosphaeria rostrata**, antagonists, *Bacillus megaterium* 56
- Sex differentiation**, *Ceutorhynchus portulacae* 410
- Sex pheromones**
Anaphes listronoti 1268
Chrysopa pallens 2012
 nontarget effects, beneficial arthropods 1659
- Sex ratio**
Adalia bipunctata 1930
Cotesia ruficornis 2605

Sex ratio cont.

- Hymenoptera 208
Lysiphlebia mirzai 2010
Pimpla nipponicus 2609
- Sheep**, *Trichostrongylus colubriformis*, Australia 377-378
- Sicily**, predatory insects, vineyards 852
- Sida acuta**
 biological control
Calligrapha pantherina, Australia 435
 Curculionidae 1078
- Sida rhombifolia**, biological control, Curculionidae 1078
- Sierola**, Tortricidae, biological control, New Zealand 1417
- Sigmophora**, revisions 2571
- Simoccephalus serrulatus**, pathogenicity 1007
- Simoccephalus vetulus**, pathogenicity 1007
- Simuliidae**
 biological control, *Bacillus thuringiensis* subsp. *israelensis*, West Africa 1749
 rivers, West Africa 1749
- Simulium chutteri**
 biological control, *Bacillus thuringiensis* subsp. *israelensis*, South Africa 1762
 rivers, South Africa 1762
- Simulium ornatum**, pathogenicity 1007
- Simulium variegatum**, pathogenicity 1007
- Sinapis alba**, *Brevicoryne brassicae*, Poland 1627
- Sinophorus turionus**
 hosts, *Ostrinia nubilalis* 1454
 maize fields, Europe 1454
- Siphoninus phillyrae**
 biological control, Aphelinidae, Egypt 214
 pomegranates, Egypt 214
- Sirex noctilio**, biological control, conferences 2094
- Sitobion akebiae**, predators, *Cheilomenes sexmaculata* 518
- Sitobion avenae**
 parasitoids
Aphelinus abdominalis 604
Aphidius 1461
Aphidius ervi 590, 1004, 2700
Aphidius gifuensis 2689
Aphidius picipes 2689
Aphidius rhopalosiphii 1315
Aphidius uzbekistanicus 50
Dendrocerus carpenteri 50
Monoclonus nervosus 1943
Praon volucre 2700
 pathogens, *Erynia neopaphidis* 1315, 2585
 predators
 Cantharidae 1450
Carabus violaceus 1414
Harpalus rufipes 1414
Hylyphantus graminicola 1461
Nebria brevicollis 1414
Propylea japonica 1461
Pterostichus cupreus 1414
Pterostichus madidus 1414
Pterostichus melanarius 1414
 Syrphidae 1461
Trochosa ruficollis 1414
- wheat
 China 1461
 Germany 1450
- Sitobion fragariae**
 biological control, *Aphidoletes*, Germany 1705
 roses, Germany 1705
- Sitona cylindricollis**, parasitoids, *Pygostolus falcatus* 1244
- Sitona lineatus**
 biological control, entomopathogens, Poland 2169
 legumes 2170
 pathogens
Beauveria bassiana 2170, 2730
Heterorhabditis bacteriophora 74, 2730
Metarhizium anisopliae 2170, 2730
Paecilomyces farinosus 2170, 2730
Paecilomyces fumosoroseus 2170, 2730
Steinernema carpocapsae 74, 2730
Steinernema feltiae 74

Sitona lineatus cont.

- peas, Poland 2169
- Sitophilus granarius**, parasitoids, *Lariophagus distinguendus* 1266, 1725
- Sitophilus oryzae**
 parasitoids
Anisopteromalus calandrae 1104, 1962, 2531
Cerocephala dinoderi 998
Theocalyx elegans 998
 pathogens
Bacillus thuringiensis subsp. *bolivia* 2712
Beauveria bassiana 2149
 rice commodities 2149
- Sitophilus zeamais**
 biological control, *Beauveria* 2404
 maize grain, Togo 338
 parasitoids
Anisopteromalus calandrae 338
Lariophagus distinguendus 1958
Theocolax elegans 338
 pathogens, *Beauveria bassiana* 749
 predators, *Teretriosoma nigrescens* 2138, 2673
- Sitotroga cerealella**
 parasitoids
Trichogramma brassicae 2078
Trichogramma evanescens 2078
Trichogramma gallioi 1988
Trichogramma ostrinae 2078
Trichogramma pretiosum 1222, 1988
 predators, *Orius majusculus* 1249
- Skimmia japonica**, *Panonychus citri*, USA 317
- Slovakia**
 beneficial insects, wheat fields 1460
 entomophilic nematodes, soil 2751
Fusarium culmorum, biological control, *Trichoderma harzianum* 1421
Melanogromyza albicilla 1071
Sinophorus turionus, maize fields 1454
- Slovenia**, biological control 2086
- Small mammals**, prey, *Epirrita autumnata*, Finland 2055
- Smerinthus cerisyi**, pathogens, *Cotesia congregata* 627
- Smerinthus planus**, parasitoids, *Trichogramma closterae* 530
- Smerinthus salicetti**, pathogens, *Cotesia congregata* 627
- Smicronyx**, *Striga hermonthica*, biological control, Burkina Faso 1084
- Sodium oleate**, toxicity, parasitoids 1093
- Sogatella furcifera**
 parasitoids, *Haplogonotopus apicalis* 527
 pathogens, *Erynia delphacis* 1359
 predators
 Araneae 741
 Coleoptera 741
Cyrtorhinus lividipennis 2663
Hylyphantus graminicola 48
Microvelia horvathi 519
Pardosa pseudoannulata 48
Ummeliata insecticeps 1453
 rice, India 741
- Soil**
Bacillus sphaericus, Brazil 1739
Bacillus subtilis, survival 2048
Bacillus thuringiensis
 Canada 336
 China 1350
 Korea Republic 1325
 entomophilic nematodes, Guadeloupe 1324
 entomophilic nematodes, Slovakia 2751
 Heterorhabditidae, infectivity 1772
 plant pathogens, biological control 2762
Steinernema, movement 588
 Steinernematidae, infectivity 1772
Trichoderma harzianum, survival 2048
- Soil bacteria**, biological control agents, reviews 2068
- Soil fungi**
 antagonism, *Phytophthora cryptogea* 1699
 biological control, *Trichoderma* 1391
- Soil pests**, integrated pest management 2518
- Soil pH**, effects, *Steinernema feltiae* 2366
- Solanum carolinense**, natural enemies, *Epilachna vigintioctopunctata* 1068

- Solanum dulcamara**, biological control, *Chondrostereum purpureum*, Netherlands 2466
- Solanum elaeagnifolium**, biological control, *Leptinotarsa* 2482
- Solanum mauritanum**, *Platyphora semiviridis*, biological control 1076
- Solar radiation**, effects, *Metarhizium anisopliae* 1358
- Solenopsis**, parasitoids, *Pseudacteon* 381
- Solenopsis daguerrei**, *Solenopsis richteri*, biological control, Argentina 1776
- Solenopsis geminata**
 parasitoids
Pseudacteon 1195
Pseudacteon browni 1899
Pseudacteon crawfordi 1899
Pseudacteon curvatus 605
Pseudacteon littoralis 605
Pseudacteon pradei 605
Pseudacteon spatulatus 1899
Pseudacteon tricuspidatus 605
Pseudacteon wasmanni 605
 predators, *Pseudacteon* 1911
- Solenopsis invicta**
 parasitoids, *Pseudacteon* 1195
 predators, *Pseudacteon* 1911
- Solenopsis richteri**
 biological control, *Solenopsis daguerrei*, Argentina 1776
 parasitoids, *Pseudacteon* 2011
- Solenopsis saevissima**
 parasitoids
Pseudacteon curvatus 605
Pseudacteon littoralis 605
Pseudacteon pradei 605
Pseudacteon tricuspidatus 605
Pseudacteon wasmanni 605
- Solidago altissima**, *Eurosta solidaginis*, galls 2477
- Sorghum**
 beneficial insects, indigenous knowledge 711
Chilo partellus
 India 53
 Kenya 2137
Ostrinia nubilalis, Egypt 1444
Pelopidas mathias, India 42
Schizaphis graminum 746
- Sorghum fields**
 natural enemies 2341
 parasitoids, India 735, 750
 predatory arthropods
 India 780
 movement, USA 267
- South Africa**
Aleurocanthus spiniferus, biological control, *Encarsia smithi* 1605
Aulacaspis tubercularis, biological control, *Cybocephalus binotatus* 893
Chrysanthemoides monilifera, biological control, *Endophyllum osteospermi* 392
Cotesia, new species, cabbage fields 1897
 entomogenous fungi 673
Opuntia stricta, biological control, *Dactylopius opuntiae* 1072, 2488
Sesbania punicea, biological control, Curculionidae 407
Simulium chutteri, biological control, *Bacillus thuringiensis* subsp. *israelensis* 1762
Sirex noctilio, biological control 2094
 weeds, biological control 2457
- South East Asia**
 insect pests, biological control 700
 stored products pests, biological control 2412
- South Pacific**, insect pests, biological control 10
- Soyabean extracts**, attractants, *Lysiphlebus fabarum* 70
- Soyabean fields**
 Carabidae, USA 13
 natural enemies, USA 770
Notiobia cupripennis, Argentina 2183
 parasitoids
 Brazil 772
 Indonesia 12
 Tachinidae, Brazil 1486

Soyabeans

- Aphis* 70
Helicoverpa zea, USA 1483
Heterodera glycines 77, 2184
 Korea Republic 2572
Macrophomina phaseolina, India 1474
Nabis roseipennis, resistance 771
 Pentatomidae, Brazil 1486
 plant pathogenic fungi 2163
Rhizoctonia solani 66
Riptortus clavatus, Japan 76
Spodoptera littoralis, Egypt 2176
Spodoptera litura, India 764

Spain

- Aceria drabae* 1077
Aeolothrips, tomato fields 2218
Bacillus thuringiensis, diversity 1319
Helicoverpa armigera, biological control, Orius 944
 Hemiptera, cotton fields 944
 Hymenoptera, apple orchards 855
Neozygites parvispora, cucumber green-houses 139
Ooencyrtus pityocampae, reproduction 1976
Ophiostoma novo-ulmi, biological control, *Verticillium dahliae* 1686-1687
 Phytoseiidae, horticultural crop fields 718
 predatory arthropods
 maize fields 2132
 pear orchards 854
 temperate fruit orchards 861
 predatory insects, olive orchards 873
 Scolytidae, biological control, Hymenoptera 1686
 Syrphidae 502
Tetranychus urticae, biological control, predators 2257

Spalangia cameroni

- hosts
Haematobia irritans 2445
Musca domestica 1759, 2436
Physiphora aenea 1759
Sarcophagula 1759
Stomoxys calcitrans 1759, 2436

Spalangia endius

- hosts
Exorista bombycis 2416
Musca domestica 1018, 1759
Physiphora aenea 1759
Sarcophagula 1759
Stomoxys calcitrans 1759

Spalangia gemina

- hosts
Anastrepha suspensa 1161
Musca domestica 1161, 1759
Physiphora aenea 1759
Sarcophagula 1759
Stomoxys calcitrans 1759
 oviposition 1161
 rearing techniques 1161

Spalangia nigripes

- hosts
Musca domestica 2436
Stomoxys calcitrans 2436

Spalangia nigroaenea

- hosts
Haematobia irritans 2445
Musca domestica 366, 1759
Physiphora aenea 1759
Sarcophagula 1759
Stomoxys calcitrans 1759
 Muscidae, biological control 1021

Spalangia subpunctata

- hosts
Musca domestica 2436
Stomoxys calcitrans 2436

Spalgis epeus

- coffee plantations, India 933
 mango orchards, India 877
 prey
 Planococcus citri 933
 Planococcus lilacinus 933

Spallanzania hebes

- hosts, *Mamestra configurata* 1887
 keys 1887

Spathius rubidus

- hosts, *Xiphydria longicollis* 967
Quercus robur forests, Italy 967

Spatial distribution

- beneficial arthropods, orchards 2021

Spatial distribution cont.

- entomogenous fungi, fields, UK 2519
Eretmocerus eremicus 1545
Neoseiulus californicus, strawberry greenhouses, Argentina 2259
Sphaceloma, *Euphorbia hirta*, biological control 398
Sphaceloma poinsettiae, *Euphorbia heterophylla*, biological control 398
Sphaerellopsis filum, hyperparasitism, *Melampsora epitea* 1677
Sphaeromias longipennis, hosts, Diptera 368
Sphaerophoria scripta, prey, Aphidoidea 502
Sphaerotheca fuliginea
 antagonists, *Bacillus brevis* 1526-1527
 biological control
 Cladosporium cladosporioides 810
 Sporothrix flocculosa 118
 cucumbers 118, 810
 Euphorbia hirta, biological control 398
Sphaerotheca fusca
 biological control, antagonists, Israel 1511
 cucumbers, Israel 1511
Sphagnum, seedborne organisms, biological control 295
Sphecochaga vesparum vesparum
 biological control, *Vespula vulgaris*, New Zealand 1045
 hosts, *Vespula* 2443
 overwintering, New Zealand 1972
Sphenoptera jugoslavica
 Centaurea diffusa
 biological control, USA 405
 integrated control, USA 2499
Sphinx vashii, pathogens, *Cotesia congregata* 627
Sphrageidus similis
 parasitoids, *Trichogramma closterae* 530
 pathogens
 Nosema 1916
 Nosema bombycis 1916
Spilocaria bissellata
 mandarin orchards, India 1596
 population dynamics 1596
 prey, Homoptera 1596
Spilochalcis morleyi
 hosts, *Brassolis sophorae* 1221
 life history 1221
Spilomena
 parasitoids, *Neorhacodes enslini* 838
 Rubus 838
Spilonota lechriaspis
 apples 847
 parasitoids, *Lycorina spilonotae* 847
Spinach, *Fusarium oxysporum* f.sp. *spinaciae* 95
Spinosad
 nontarget effects
 Anthonomus grandis 1845
 Catolaccus grandis 2537
 Orius insidiosus 2536
 toxicity
 beneficial insects 2524, 2538
 Podisus maculiventris 1120
 predatory insects 461, 1123
Spodoptera, ectoparasites, *Diapetimorpha introita* 1216
Spodoptera depravata, pathogens, *Bacillus thuringiensis* subsp. *kurstaki* 659
Spodoptera exigua
 parasitoids
 Diapetimorpha introita 1257
 Trichogramma minutum 253
 Trichogramma pretiosum 253
 pathogens
 Bacillus thuringiensis 249, 486, 1319
 Bacillus thuringiensis subsp. *boliviana* 2712
 Bacillus thuringiensis subsp. *kurstaki* 659
 Heterorhabditis 608
 Metarhizium anisopliae var. *anisopliae* 1234
 Nosema 2046
 nuclear polyhedrosis viruses 1225, 1296, 1912
 Ovomermis sinensis 1500
 predators, *Phytoseiulus persimilis* 2701

Spodoptera frugiperda

- Bacillus thuringiensis*, resistance 45
 biological control
 Bacillus thuringiensis subsp. *aizawai* 477
 entomophilic nematodes 2777
 nuclear polyhedrosis viruses, Latin America 1433
 Steinernema carpocapsae 2145
 Steinernema riobrave 2145
 Trichogramma 1409
 maize 45
 Latin America 1433
 parasitoids, *Diapetimorpha introita* 1257
 pathogens
 Bacillus thuringiensis 1438
 Bacillus thuringiensis subsp. *boliviana* 2712
 Bacillus thuringiensis subsp. *kurstaki* 2716
 Baculoviridae 524
 Beauveria bassiana 2782
 nuclear polyhedrosis viruses 680, 1225, 1438
 predators, *Suppatus cincticeps* 462
Spodoptera littoralis
 biological control
 Bacillus thuringiensis 943
 Bacillus thuringiensis subsp. *kurstaki* 2176
 Egypt 2153
 parasitoids
 Chelonus inanitus 619, 2042, 2650, 2726
 Microplitis rufiventris 463, 1252, 2704
 pathogens
 Bacillus thuringiensis subsp. *aizawai* 1298
 Bacillus thuringiensis subsp. *entomocidus* 1351
 Polydnnaviridae 2650
 Steinernema abbasi 688
 Steinernema riobrave 688
 Xenorhabdus bovienii 625
 Xenorhabdus nematophilus 625
 soyabeans, Egypt 2176
 Trifolium alexandrinum, Egypt 2153
Spodoptera litura
 biological control
 Bacillus thuringiensis subsp. *aizawai*, Japan 848
 nuclear polyhedrosis viruses 106, 802, 2248
 Rhynchoris marginatus 1660
 cauliflowers, India 802
 pathogens
 Bacillus thuringiensis 1377
 Bacillus thuringiensis subsp. *kurstaki* 659
 Nomuraea rileyi 764, 1188
 Nosema 1916
 Nosema bombycis 1916
 nuclear polyhedrosis viruses 532, 1375-1376, 2074, 2088, 2516
 Ovomermis sinensis 1500
 predators
 Acanthaspis pedestris 2603
 Acanthaspis siva 1926
 Acridotheres tristis 1188
 Cheilomenes sexmaculata 1188
 Coccinella transversalis 1188
 Cyrtopeltis tenuis 1312
 Dicrurus adsimilis 1188
 Eumenes 1188
 Megadromus antarcticus 2215
 Micraspis vinca 1188
 Rhynchoris marginatus 2675
 Vespa tropica 1188
 soyabeans, India 764
 strawberries
 India 2248
 Japan 848
 tomatoes 2215
Spodoptera pectinicornis, food plants, *Pistia stratiotes* 436
***Spondias mombin* orchards**, parasitoids, diversity, Mexico 1615
Sporobolomyces, antagonism, *Septoria apicola* 98

- Sporobolomyces roseus*, antagonism, *Botrytis cinerea* 327
- Sporobolus*, biological control, *Bipolaris* 2492
- Sporothrix flocculosa*, *Sphaerotheca fuliginea*, biological control 118
- Sporulation**
- Beauveria bassiana* 371, 1773, 2438
- Erynia neophidius* 2585
- Trichoderma* 1973
- Sprayers**, entomophilic nematodes, application 474
- Spraying equipment**, entomopathogens 2539
- Sri Lanka**, insect pests, biological control 2768
- Stachybotrys atra* antagonism
- Fusarium solani* 2299
- Macrophomina phaseolina* 2299
- Rhizoctonia solani* 2299
- Stachybotrys elegans*, antagonism, *Rhizoctonia solani* 1300
- Stagonospora**
- Calystegia sepium*, biological control 1793
- Convolvulus arvensis*, biological control 1793
- Stagonospora convolvuli*, *Convolvulus arvensis*, biological control, Switzerland 429
- Stagonospora nodorum* biological control 20
- wheat 20
- Standardization**, fungal insecticides 646
- Staphylinidae**
- Buchloe dactyloides* habitats, USA 982
- crop fields, Hungary 17
- fields, Germany 2739
- maize fields, Spain 2132
- pathogens, *Metarhizium anisopliae* 2154
- rearing techniques 2555
- Statistical analysis**, integrated control 1855
- Steinernema**
- adjuvants 454
- application, low volume sprayers 1508
- hosts
- Corcyra cephalonica* 555
- Diabrotica virgifera virgifera* 1199
- Helicoverpa armigera* 555, 1384
- Plutella xylostella* 1508
- Utetheisa pulchella* 555
- Isopoda 2594
- soil
- Guadeloupe 1324
- Slovakia 2751
- sprayers, application 474
- taxonomy 503
- usage 1146
- Xenorhabdus*, interactions 2644
- Steinernema abasi*
- hosts, *Spodoptera littoralis* 688
- Zeuzera pyrina*, biological control, Egypt 1393
- Steinernema arenarium*
- hosts, *Otiorynchus sulcatus* 2656
- reproduction 2656
- Steinernema bibionis*
- Cosmopolites sordidus*, biological control, Venezuela 2077
- hosts, *Strobilomyia neanthracina* 975
- Steinernema carpocapsae*
- Cosmopolites sordidus*, biological control, Venezuela 2077
- culture techniques 500
- Curculionidae, biological control, USA 2274
- Cydia pomonella*, biological control 875, 1567
- entomogenous fungi, interactions 2730
- Fenusa*, biological control 684
- Galleria mellonella*, biological control, Canada 2260
- hosts
- Amblyomma americanum* 1771
- Amblyomma cajennense* 1771
- Amblyomma maculatum* 1771
- Capnodis tenebrionis* 1230
- Comocritis albicapilla* 1595
- Corcyra cephalonica* 558
- Dermacenter variabilis* 1771
- Steinernema carpocapsae* cont.
- hosts cont.
- Galleria mellonella* 61, 556, 2640-2641
- Ixodes scapularis* 1047
- Musca domestica* 1760
- Opogona sacchari* 562
- Pectinophora gossypiella* 476, 588
- Plutella xylostella* 2643
- Rhipicephalus sanguineus* 1771
- Sitona lineatus* 74, 2730
- Strobilomyia neanthracina* 975
- insect pests, biological control 1394
- Leptinotarsa decemlineata*, biological control, Canada 87
- movement, soil 588
- Niphades castanea*, biological control 687
- Ostrinia nubilalis*, biological control 54
- Otiorynchus sulcatus* biological control
- Canada 2260
- USA 988
- Papuaia uninodis*, biological control 85
- pathogenicity 2783
- Pectinophora gossypiella*, biological control 2332
- Plutella xylostella*, biological control 795
- Pyrrhalta luteola*, biological control, Canada 284
- Spodoptera frugiperda*, biological control 2145
- storage 2641
- Taiwan 663
- Temnorhinus mendicus*, biological control 2309
- Tipula paludosa*, biological control, North America 1704
- Zeuzera pyrina*, biological control, Egypt 1393
- Steinernema ceratophorum*
- hosts, *Galleria mellonella* 2641
- storage 2641
- Steinernema cubanum*
- hosts, *Galleria mellonella* 2641
- storage 2641
- Steinernema feltiae*
- application methods 1852
- Batocera horsfieldi*, biological control, China 1669
- Cephalcia abietis*, biological control, Austria 2366
- environmental factors 2744
- host specificity, Argentina 1946
- hosts
- Amblyomma americanum* 1771
- Amblyomma cajennense* 1038, 1771
- Amblyomma maculatum* 1038, 1771
- Cotinis nitida* 520
- Dermacenter variabilis* 1038, 1771
- Galleria mellonella* 1946, 2640
- Hymenoptera 1946
- Ixodes scapularis* 1047
- Lepidoptera 1946
- Locusta migratoria* 2727
- Lycoriella auripila* 1232
- Megaselia halterata* 1232
- Musca domestica* 365, 1760-1761
- Orthoptera 1946
- Rhipicephalus sanguineus* 1038, 1771
- Schistocerca gregaria* 2727
- Sitona lineatus* 74
- Strobilomyia neanthracina* 975
- Typhaea stercorea* 2441
- infection 1761
- New Zealand 720
- Sciaridae, biological control, Northern Ireland 324
- soil pH, effects 2366
- spraying equipment 2539
- Tipula paludosa*, biological control, North America 1704
- Zeuzera pyrina*, biological control, Egypt 1393
- Steinernema glaseri*
- hosts
- Amblyomma americanum* 1771
- Amblyomma cajennense* 1771
- Amblyomma maculatum* 1771
- Anomala orientalis* 1390
- Cotinis nitida* 520
- Steinernema glaseri* cont.
- hosts cont.
- Cyclocephala hirta* 1390
- Cyclocephala pasadenae* 1390
- Dermacenter variabilis* 1771
- Galleria mellonella* 609, 2640
- Melolontha melolontha* 2710
- Popillia japonica* 1262, 1309
- Rhipicephalus sanguineus* 1771
- Papuaia uninodis*, biological control 85
- Steinernema kraussei*
- Cydia pomonella*, biological control 1567
- hosts
- Cephalcia abietis* 559
- Cydia pomonella* 559
- Galleria mellonella* 1947
- Tenebrio molitor* 559
- Steinernema kushidai*, hosts, *Anomala cuprea* 525
- Steinernema rarum*
- host specificity, Argentina 1946
- hosts
- Galleria mellonella* 1946
- Hymenoptera 1946
- Lepidoptera 1946
- Orthoptera 1946
- Steinernema riobrave*
- Curculionidae, biological control, USA 2274
- Cydia pomonella*, biological control 875
- hosts
- Amblyomma americanum* 1771
- Amblyomma cajennense* 1038, 1771
- Amblyomma maculatum* 1038, 1771
- Carpophilus hemipterus* 2278
- Dermacenter variabilis* 1038, 1771
- Ixodes scapularis* 1047
- Pectinophora gossypiella* 476, 588
- Rhipicephalus sanguineus* 1038, 1771
- Spodoptera littoralis* 688
- Urophorus humeralis* 2278
- movement, soil 588
- Pectinophora gossypiella*, biological control 2332
- Spodoptera frugiperda*, biological control 2145
- Zeuzera pyrina*, biological control, Egypt 1393
- Steinernema scapterisei*
- hosts
- Blattella germanica* 1371
- Musca domestica* 1760
- Tenebrio molitor* 1371
- Steinernematidae**
- hop fields, Czech Republic 2395
- hosts
- Boophilus annulatus* 1772
- Otiorynchus ligustici* 2395
- infectivity, soil 1772
- Steiniella callida*
- Czech Republic 1201
- hosts, *Chrysomela vigintipunctata* 1201
- Stenobraccon deesae*
- hosts, *Chilo partellus* 735
- sorghum fields, India 735
- Stenocorse bruchivora*, hosts, *Zabrotes subfasciatus* 101
- Stenopelmus rufinus*, biological control, *Azolla filiculoides* 1080
- Stenotrophomonas maltophilia*
- antagonism
- Pythium* 237
- Rhizoctonia solani* 59, 2129
- Stephanitis typicus*
- coconuts 1622
- pathogens, *Aspergillus flavus* 1622
- predators
- Ankyloperoxy octopunctata*
- octopunctata* 1622
- Chelisoches morio* 1622
- Endochus inornatus* 1622
- Phidippus* 1622
- Rhinocoris fuscipes* 1622
- Stethoconus praefectus* 1622
- Tetragnatha andamanensis* 1622
- Steppes**, *Harpalus affinis*, Moldova 1317
- Stethoconus praefectus*, prey, *Stephanitis typicus* 1622
- Stethorus**
- insecticides, nontarget effects 2520

Stethorus *cont.*

Tetranychus urticae, biological control 169

Stethorus punctillum

crop fields, Bulgaria 713
cucumber fields, Hungary 831
prey

Miridae 831
Tetranychus turkistani 713
Tetranychus urticae 713, 831
Thrips tabaci 831

Tetranychus urticae, biological control, Spain 2257

Sticholotus punctata, prey, *Matsucoccus matsumurae* 671

Stichotrema dallatorreanum

hosts, *Segestidea novaeguineae* 233
Tettigoniidae, biological control, Papua New Guinea 230

Sticky traps, *Trichogramma*, monitoring 484**Stilbella erythrocephala**, dyes, effects 1353**Stomoxys calcitrans**

biological control, parasitoids 1021, 1039
parasitoids

Aleochara 2436
Aleochara notula 1759
Aleochara puberula 1759
Eucoilidae 1759
Muscidifurax raptor 2436
Nasonia virripennis 2436
Pachycrepoides vindemmiae 2436
Phygadeuon fumator 2436
Spalangia cameroni 1759, 2436
Spalangia endius 1759
Spalangia gemina 1759
Spalangia nigripes 2436
Spalangia nigroaenea 1759
Spalangia subpunctata 2436
Trichomalopsis sarcophagae 364
Trichopria 2436
Urolepis rufipes 2436

Stone fruits

integrated pest management 174
Monilinia fruticola 330

Storage

Metarhizium flavoviride 2598
Steinernema 2641

Storage decay, antagonists 331**Stored products**, Dermestidae 2410**Stored products pests**

biological control
Bacillus thuringiensis 333
Cheyletus eruditus 337
conferences 2097
natural enemies, UK 2407
South East Asia 2412
grain, UK 2407
integrated control
natural enemies, reviews 2406
tropics 2405
rice grain, Guinea-Bissau 1727

Strains

Ageniaspis citricola 1372
Bacillus thuringiensis 2584
Japan 2766
Bacillus thuringiensis subsp. *kurstaki*, Korea Republic 2711
electrophoresis, *Beauveria bassiana* 1850
Fusarium oxysporum 691

Stratiolaelaps miles

Frankliniella occidentalis, biological control 986
insecticides, nontarget effects 1712
Lycoriella mali, biological control, Northern Ireland 1712

Strawberries

arthropod pests, Belgium 177, 186
Botrytis cinerea, Norway 167
integrated pest management 162
Belgium 2235
Macrosiphum euphorbiae, Belgium 187
Otiorynchus sulcatus, USA 2261
Phytonemus pallidus 862
Spodoptera litura
India 2248
Japan 848
Tetranychus urticae
Argentina 2259
France 169
Spain 2257

Strawberry fields, *Neoseiulus californicus*, functional responses, Italy 1575

Strawberry greenhouses, *Neoseiulus californicus*, spatial distribution, Argentina 2259

Streblote siva

multipurpose trees, India 2348
pathogens, nuclear polyhedrosis viruses 2348

Street trees, Hymenoptera, Canada 970

Streptococcus, antagonism, *Fusarium oxysporum* f.sp. *cumini* 321

Streptomyces

antagonism
plant pathogens 1341
Streptomyces scabies 82
Fusarium proliferatum, biological control, Taiwan 306

Streptomyces avermitilis, *Meloidogyne incognita*, biological control 188

Streptomyces graminofaciens

antagonism, *Plasmidiophora brassicae* 655

Plasmidiophora brassicae, biological control, India 99

Streptomyces griseoviridis, *Fusarium*, biological control, USA 282

Streptomyces griseus, antagonism, *Phellinus gilvus* 2577

Streptomyces lavendulae, antagonism, *Ralstonia solanacearum* 2575

Streptomyces saracetius, *Meloidogyne*, biological control, Taiwan 215

Streptomyces scabies

antagonists
Bacillus subtilis 2188
Ralstonia pickettii 82
Streptomyces 82
potatoes 82

Streptomyces violaceusniger

antagonism
Rhizoctonia solani 1464
Sclerotinia homoeocarpa 1464

Striga hermonthica

biological control
Fusarium oxysporum, Nigeria 2512
Smicronyx, Burkina Faso 1084
mycotoxins, interactions 2513

Strobilomyia neanthracina

pathogens
Steinernema bibionis 975
Steinernema carpocapsae 975
Steinernema feltiae 975
Picea, Canada 975

Strongwellsea

hosts
Coenosia tigrina 2433
Helina reversio 2433
Pollenia pediculate 2433
Sarcophaga 2433
Schoenomyza litorella 2433

Strongwellsea castrans

hosts
Anthomyia liturata 2433
Botanophila fugax 2433
Hylemya vagans 2433
Paradelia intersecta 2433
Paregle audacula 2433
Subhylemyia longula 2433

Strongwellsea magna

hosts
Fannia armata 2433
Fannia glaucescens 2433
Fannia scalaris 2433

Strongygaster triangulifera, hosts, *Harmonia axyridis* 1321

Strongyloides papillosus

biological control
Arthrobotrys oligospora 376
nematode-trapping fungi 379

Stryphnodendron microstachyum, *Pestalotia*, Costa Rica 1675

Sturmiopsis inferens

Chilo auricilius, biological control, India 1637
hosts, *Chilo partellus* 735
sorghum fields, India 735, 750

Subhylemyia longula, pathogens, *Strongwellsea castrans* 2433

Sugarbeet

Heterodera schachtii 244

Sugarbeet *cont.*

Mamestra brassicae, Japan 1635
plant diseases 240
plant pathogens 239
Polymyxa betae 924
Pythium 237, 1629
Pythium ultimum 238
Tennorhinus mendicus 2309

Sugarbeet fields

Syngliocladium tetanopsis, USA 242
Theridion impressum, Germany 2308
Trichogramma, Japan 1635

Sugarcane

biological control, books 926
Chilo auricilius, India 1637
Chilo infuscatellus, India 927
Dermolepida albohirtum, Australia 1636
Glomerella tucumanensis 925
Heterotermes tenuis, Brazil 928
insect pests
Australia 1642
Taiwan 930
Pyrrilla perpusilla, India 243, 929
Scirpophaga excerptalis, India 241

Sugarcane fields

Araneae, India 1633
Epiricania melanoleuca, India 929
predatory arthropods, India 1632
Pseudoshirakia, India 241
Telenomus beneficiens, Taiwan 930
Trichogramma, Taiwan 1638

Sugars, Microspora 2046**Sulfur**

nontarget effects
Orthotrypes lambi 1563
Trichogramma cacaeciae 2535
toxicity, *Typhlodromus pyri* 179

Sunflower fields

Alcaeorrhynchus grandis, Brazil 920
Homalotylus eytelweinii, India 2303
Orius maxidentex, India 2302
predatory insects, India 229

Sunflowers

Chrysoperla carnea 585
Helicoverpa armigera 922
insect pests, India 229
natural enemies, *Zygogramma bicolorata* 417
Orobancha cumana 402
Nepal 913
Sclerotinia minor 915
Thysanoplasia orichalcea, India 226, 1620

Suppatus cincticeps

insecticides, toxicity 462
prey
Spodoptera frugiperda 462
Tenebrio molitor 1235, 1998

Survival

Bacillus subtilis, soil 2048
Bethyidae 2317
Trichoderma harzianum, soil 2048

Swarming, *Karpinskiella pityophthori* 2685**Sweden**

Adalia bipunctata 1930
biological control 2076
conferences 2095
reviews 686
biological control agents, legislation 2060
Chironomidae, predators, fishes 1766
Cotesia melitaeum 1287
Heterobasidion annosum, biological control 1690
Musca domestica, biological control 369
plant pathogenic fungi, biological control, *Pseudomonas chlororaphis* 30
postharvest decay, biological control 1717
Pterostichus cupreus, fields 456

Sweet potato fields

Encarsia formosa, Egypt 1411
Hymenoptera, USA 83

Sweet potatoes

Bemisia argentifolii, USA 83
Bemisia tabaci, Egypt 1411
Meloidogyne incognita 789, 2191

Sweetcorn fields, Coccinellidae, USA 1448**Switzerland**

beneficial arthropods, apple orchards 170
Convolvulus arvensis, biological control, *Stagonospora convolvuli* 429

Switzerland cont.

- Dysaphis plantaginea*, biological control,
Adalia bipunctata 1580
Macrosiphum euphorbiae, biological control,
Aphelinus abdominalis 140
parasitoids, apple orchards 178
Senecio vulgaris, biological control, *Puccinia lagenophorae* 390
Syrphidae, fields 2111
Tetranychus urticae, biological control,
Phytoseiulus persimilis 140
Thysanoptera, biological control,
Neoseiulus cucumeris 140
Trialeurodes vaporariorum, biological control,
Encarsia formosa 140
Tripleurospermum perforatum, biological control,
Rhopalomyia 1799
Sycanus collaris, prey, *Clostera* 285
Sycanus leucomesus, nuclear polyhedrosis viruses, interactions 1233

Symbiosis

- Chilocorus*, *Hemisarcophytes* 1970
Heterorhabditis, *Photorhabdus luminescens* 639
Heterorhabditis bacteriophora,
Photorhabdus luminescens 639
Heterorhabditis megidis, *Photorhabdus luminescens* 639

- Symosyrphus grandicornis*, prey,
Macrosiphum rosae 535

Sympiesis acalle

- apple orchards, Spain 855
hosts
Phyllonorycter corylifoliella 855
Phyllonorycter mespiliella 855

Sympiesis gordius

- apple orchards, Spain 855
hosts
Phyllonorycter corylifoliella 855
Phyllonorycter mespiliella 855

Sympiesis sericeicornis

- apple orchards, Spain 855
environmental factors 580
hosts
Phyllonorycter corylifoliella 855
Phyllonorycter malella 580
Phyllonorycter mespiliella 855

Sympiesis viridula

- hosts, *Ostrinia nubilalis* 1455
maize fields, USA 1455

Syngliocladium tetanopsis

- hosts, *Tetanops myopaeformis* 242
new species 242
sugarbeet fields, USA 242

- Synia melanaria*, prey, *Coptosoma ostensum* 2589

- Synonychia grandis*, prey, *Pseudoregma bambucicola* 993

Synthetic diets

- Chrysoperla carnea*, bioassays 1099
Chrysoperla rufilabris 494
Edovum putleri 1881
Podisus nigripinus, rearing techniques 1869
Trichogramma pretiosum, rearing techniques 1874

Syrphidae

- alpha-cypermethrin, toxicity 91
apple orchards
Australia 864
Switzerland 170
cabbage fields, India 804
fields
Germany 912
Switzerland 2111
maize fields, Spain 2132
population dynamics 1461, 2111
Prunus avium plantations, Italy 2354
potato fields, Bulgaria 91
prey
Aphididae 2111
Brevicoryne brassicae 804
Eriosoma lanigerum 864
Macrosiphum euphorbiae 1531
Myzus cerasi 2354
Myzus persicae 1531
Schizaphis graminum 1461
Sitobion avenae 1461
Southern Europe 502
wheat fields
Australia 751

Syrphidae cont.

- wheat fields cont.
China 1461
Syrphophagus, crop fields, UK 782
Syrphus phaeostigma, keys, fields, Argentina 1458

Syrphus ribesii

- prey, *Hyalopterus pruni* 2245
rearing techniques 1166
Syrphophagus, hosts, *Acyrtosiphon pisum* 782

- Tachinaephagus zealandicus*, hosts,
Hybopygia varia 1024

Tachinidae

- apple orchards, Switzerland 178
Cacyreus marshalli, biological control,
Poland 1703
Cucurbitaceae fields, USA 1547

- hosts

- Adoxophyes orana* 178
Cydia pomonella 178

Tachyporus hypnorum

- dispersal 2019
mortality 1945

Taiwan

- Agrias citricola* 1372
Encarsia 1182
Fusarium proliferatum, biological control, bacteria 306
Meloidogyne, biological control, *Streptomyces saraceti* 215
monitoring, *Trichogramma* 1639
Perina nuda 2564
Steinernema carpocapsae 663
Telenomus beneficiens, sugarcane fields 930
Trichogramma, sugarcane fields 1638

Talaromyces flavus

- antagonism
Cochliobolus sativus 2131
Pythium ultimum 1400
Rhizoctonia solani 1400
Verticillium dahliae 79
Verticillium dahliae, biological control 130

- Tamarix chinensis*, biological control,
insects, USA 1055

- Tamarix gallica*, natural enemies, *Coniatus tamarisci* 418

Tanytarsus fimbriatus

- marshes, France 2434
pathogens, *Bacillus thuringiensis* subsp.
israelensis 2434

Tanytarsus horni

- marshes, France 2434
pathogens, *Bacillus thuringiensis* subsp.
israelensis 2434

Tanzania

- Cordyceps* 1634
Oryctes monoceros, biological control,
Baculovirus oryctes 2307
Pseudotheraptus wayi, biological control,
Oecophylla longinoda 921

Tapinoma nigerrimum

- prey
Chrysoperla carnea 232
Prays oleae 2296

- Tarachidia candefacta*, *Ambrasia artemisiifolia*, biological control 1803

Taraxacum officinale

- biological control, *Phoma*, Canada 1787
Harpalus rufipes 89

Tarchium, New Zealand 720**Taxomyia taxi**

- parasitoids
Mesopolobus diffinis, UK 1672
Torymus nigritarsus, UK 1672

Taxus baccata

- Aphelinidae*, India 513
Diolcogaster, Australasia 1898

- Taxonomy** (see also Keys; New genus; New species; Taxonomic revisions)

- Heterorhabditis* 503
Phytoseiidae 2570
Steinernema 503

Taxus baccata

- Otiorynchus sulcatus*, Italy 2382
Taxomyia taxi, UK 1672

Tea, *Glomerella cingulata* 1643**Tebufenozide**

- nontarget effects
beneficial arthropods 2277, 2520
Micromus tasmaniae 448
Opius concolor 1122
toxicity, beneficial insects 1118, 2524

Tebufenpyrad

- nontarget effects, *Amblyseius andersoni* 870
toxicity, *Amblyseius longispinosus* 1828
Techniques Papers on specific types of technique, such as sampling, release techniques, testing, ELISA, monitoring etc. are indexed separately under these headings.

- Tecomella undulata*, *Streblote siva*, India 2348

- Tectona grandis*, *Hyblaea puera*, India 955, 957, 2350

Teflubenzuron

- nontarget effects
beneficial arthropods 1091
Coccinellidae 1621
toxicity, parasitoids 1093

- Tefluthexuron**, nontarget effects, beneficial arthropods 857

- Teladorsagia circumcincta*, biological control, nematophagous fungi 2449

Telenomus

- environmental factors 1919
hosts
Acherontia styx 2219
Chilo partellus 1442
Deudorix isocrates 2281
Eurygaster integriceps 43, 51
prey, *Helicoverpa zea* 1919
wheat fields, Russia 43

- Telenomus alsophilae*, hosts, *Lambdina fiscellaria fiscellaria* 2595

Telenomus beneficiens

- hosts
Chilo infuscatellus 930
Chilo sacchariphagus 930
population dynamics 930
sugarcane fields, Taiwan 930

- Telenomus busseolae*
host-seeking behaviour, models 1279
hosts

- Busseola fusca* 1439
Sesamia nonagrioides 1254, 1279
photoperiod 1254

Telenomus dignoides

- hosts, *Scirpophaga incertulas* 1459
rice fields, India 1459

- Telenomus edessae*, soyabean fields, Brazil 772

- Telenomus isis*, hosts, *Busseola fusca* 1439

Telenomus podisi

- hosts, Pentatomidae 1205
longevity 1205
soyabean fields, Brazil 772

- Telenomia scrupulosa*, food plants, *Lantana camara* 1795

- Telsimia nigra centralis*, prey, *Aulacaspis rosarum* 1910

Temelucha

- hosts, *Chilo partellus* 735
sorghum fields, India 735

Temnorhinus mendicus

- biological control, entomophilic nematodes 2309
sugarbeet 2309

- Temperate fruit orchards**, parasitoids, New Zealand 846

- Temperate fruits**, integrated pest management, Korea Republic 2255

Temperature

- Agasicles hygrophila* 1812
Aphelinus albipodus, China 2583
Baculoviridae 524
Blattisocius tarsalis 1935
Chilocorus nigritus 553
Harmonia axyridis 540
Heterorhabditis 2745
Metarhizium flavoviride 2598
Trichogramma principium 1963
Trichogrammatodea armigera 554

Tenebrio molitor

- parasites, *Hymenolepis diminuta* 2722
pathogens
Steinernema kraussei 559

- Tenebrio molitor* cont.**
pathogens cont.
Steinernema scapterisci 1371
predators
Agelenopsis aperta 1285
Argiope trifasciata 1285
Suppilius cincticeps 1235, 1998
- Tenodera angustipennis***
prey, Diptera 1436
rice fields, Japan 1436
- Tenodera aridifolia***
grasslands, Japan 1436
prey, Diptera 1436
- Tenthredinidae**, predators, *Polistes chinensis* 1267
- Tephrina arenacearia***
lucerne, Azerbaijan 757
parasitoids
Aleiodes rossicus 757
Meteorus versicolor 757
- Tephritidae**
parasitoids
Aganaspis pelleranoi 891
Biocterus longicaudatus 891
Doryctobracon areolatus 891
Hymenoptera 592
Uletes anastrephae 891
tropical fruits, Brazil 891
- Tephritis ruralis***
food plants, *Hieracium pilosella* 1800
Hungary 1800
- Teratosperma sclerotivora***, *Amphobotrys ricini*, biological control 224
- Tetrisosoma nigrescens***
development 2673
prey
Gnatocerus maxillosus 2673
Prostephanus truncatus 603, 946, 2138, 2673
Sitophilus zeamais 2138, 2673
Tribolium castaneum 2673
Prostephanus truncatus, biological control, Togo 339, 1721
- Territoriality**, *Trissolcus plautiae* 2665
- Tersilochus heteroceris***
fields, Germany 2297
hosts, *Meligethes aeneus* 2297
- Tessaratoma papillosa***
biological control
Anastatus japonicus
China 885
Hong Kong 1613
parasitoids 217
Litchi
China 217, 885
Hong Kong 1613
parasitoids, *Anastatus japonicus* 1909
- Tetanops myopaeformis***, pathogens, *Syn-gliocladium tetanopsis* 242
- Tetragnatha andamanensis***, prey, *Stephanitis typicus* 1622
- Tetragnatha javana***
insecticides, nontarget effects 52
rice fields, India 52, 2140
- Tetragnatha mandibulata***, rice fields, India 2140
- Tetragnatha maxillosa***
prey, *Scirpophaga incertulas* 1459
rice fields, India 1459, 2140
- Tetraleurodes aursorum***, parasitoids, *Encarsia hamoni* 1894
- Tetranychidae**
apples 1569
biological control, natural enemies 850
pears 850
predators
Amblyseius fallacis 547, 1569
Neoseiulus fallacis 2633
Zetzellia mali 1569
- Tetranychina harti***, predators, *Typhlodromus kerkirae* 1489
- Tetranychus***
biological control 2383
Phytoseiulus persimilis, Germany 1705
ornamental plants 2383
predators
Neoseiulus fallacis 2633
Orius strigicollis 1402
Orius tantillus 1402
roses, Germany 1705
- Tetranychus cinnabarinus***
predators
Amblyseius bibens 1937
Phytoseiulus persimilis 1937
- Tetranychus dellaris***
biological control, *Chrysoperla carnea*, India 2514
Ricinus communis, India 2514
- Tetranychus kanzawai***
biological control, *Phytoseiulus persimilis* 1573
grapes, Japan 1573
predators
Amblyseius eharai 674
Amblyseius fallacis 2632
Amblyseius longispinosus 2632
Amblyseius makuwa 674
Amblyseius obtuserellus 674
Neoseiulus longispinosus 674
Phytoseiulus persimilis 2632
- Tetranychus neocaledonicus***, predators, *Chrysoperla carnea* 2671
- Tetranychus pacificus***
biological control
Eotetranychus willamettei, USA 1564
Typhlodromus occidentalis, USA 1564
predators, *Frankliniella occidentalis* 1652
- Tetranychus tumidus***, predators, *Phytoseiulus macropilis* 1920
- Tetranychus turkestani***
predators
Acaroletes tetranychorum 713
Anthocoris nemoralis 713
Nabis fesus 713
Oligota oviformis 713
Orius majusculus 713
Scolothrips sexmaculatus 713
Stethorus punctillum 713
- Tetranychus urticae***
apples, Australia 867
biological control
Acari, Belgium 177
Neoseiulus fallacis, USA 2322
Phytoseiulus persimilis 2388
Switzerland 140
predators, Spain 2257
predatory arthropods 169, 186, 257
Seiulus finlandicus, Hungary 831
Zetzellia mali, Hungary 831
field crops, Egypt 2119
fruit vegetables 821
greenhouse crops, Switzerland 140
hops, USA 2322
ornamental plants 2388
pathogens, *Beauveria bassiana* 2615
Phytoseiulus persimilis, biological control, models 2388
predators 1224
Acaroletes tetranychorum 713
Aelothrips intermedius 831
Amblyseius citrifolius 1193
Amblyseius fallacis 1191
Anthocoris nemoralis 713
Aptus mirmicoides 831
Chrysopidae 867
Coccinellidae 867
Forficulidae 867
Nabis fesus 713, 831
Nabis punctatus 831
Neoseiulus californicus 821, 1575, 2205, 2259, 2385, 2694
Neoseiulus longispinosus 1191
Oligota oviformis 713
Orius majusculus 713, 831
Orius niger 831
Phytoseiulus persimilis 586, 1269, 1273-1274, 1294, 1327, 1981, 2006, 2384-2385, 2387, 2694
Scolothrips longicornis 831
Scolothrips sexmaculatus 713
Seiulus finlandicus 831
Stethorus punctillum 713, 831
Thomisus spinifer 2119
Tydeidae 831
Typhlodromus kerkirae 1489
Typhlodromus negevi 1959
Typhlodromus occidentalis 867, 1191
Zetzellia mali 831
raspberries, Chile 868
roses, Colombia 2385
- Tetranychus urticae* cont.**
strawberries
Argentina 2259
Belgium 177, 186
France 169
Spain 2257
- Tetrastichus**
Citrus orchards, USA 2283
hosts, *Cribrolecanium andersoni* 1604
- Tetrastichus articulavus***, hosts, *Busseola fusca* 1439
- Tetrastichus coeruleus***, *Crioceris asparagi*, biological control, Netherlands 102, 787
- Tetrastichus galactopus***, hosts, *Cotesia glomerata* 798
- Tetrastichus giffardianus***
hosts
Ensina sonchi 543
Trupanea dubautiae 543
USA 543
- Tettigoniidae**
biological control, *Stichtotrema dallatoreanum*, Papua New Guinea 230
oil palms, Papua New Guinea 230
- Thailand**
Aedes aegypti
biological control
Bacillus thuringiensis subsp. *israelensis* 357
fishes 357
- Thaumetopoea pityocampa***
biological control, *Linepithema humile* 2369
parasitoids
Anastatus bifasciatus 1698
Baryscapus servadeii 1698
Baryscapus transversalis 1698
Ooencyrtus pityocampae 1698, 1976
Pediobius 1698
Trichogramma embryophagum 1698
Pinus nigra, Bulgaria 1698
Pinus pinaster, Portugal 2369
- Thea bisoctosata***, prey, Aphididae 1374
- Theba pisana***, pathogens, Nematoda 2788
- Thecodiplosis japonensis***
parasitoids
Inostemma 2364
Platygaster matsutama 2364
pathogens, *Beauveria* 2363
- Theocalyx elegans***, hosts, *Sitophilus oryzae* 998
- Theocalyx elegans***
hosts
Prostephanus truncatus 338
Sitophilus zeamais 338
maize grain, USA 340
- Theridion impressum***
insecticides, nontarget effects 1844
population dynamics, apple orchards, Czech Republic 1844
prey, *Myzus persicae* 2308
sugarbeet fields, Germany 2308
- Theridion rufipes***, prey, *Aedes aegypti* 1008
- Therioaphis brachytricha***
lucerne, Argentina 2156
predators, *Eriopsis connexa* 2156
- Therion sassacus***
habitats, maize fields, USA 1452
hosts, *Mythimna unipuncta* 1452
- Therodiplosis***, *Tetranychus urticae*, biological control 169
- Thevetia peruviana* extracts**, toxicity, *Chrysocharis johnsoni* 1824
- Thiacidas postica***
pathogens, nuclear polyhedrosis viruses 2273
Ziziphus mauritiana, India 2273
- Thielaviopsis basicola***
antagonists
Bacillus subtilis 2325
Pseudomonas fluorescens 2325
- Thiodicarb**, effects, *Microplitis croceipes* 2330
- Thiophanate-methyl**, nontarget effects, *Fusarium oxysporum* 1097
- Thiram**
nontarget effects
Beauveria brongniartii 1115
Trichogramma cacaeciae 2535

Thomisidae

insecticides, nontarget effects 857, 1844
 pear orchards, Czech Republic 857
 population dynamics, apple orchards,
 Czech Republic 1844

predators, *Sceliphron caementarium* 2780

Thomisus, fields, Argentina 1458**Thomisus spinifer**

behaviour, feeding behaviour 2119
 prey, *Tetranychus urticae* 2119

Thripidae, predators, *Orius strigicollis* 2620**Thrips hawaiiensis**

predators

Orius maxidentex 2302
Orius strigicollis 1402
Orius tantillus 1402

Thrips palmi

biological control, *Wollastoniella rotunda*
 889

mangoes, Japan 889

predators

Frankliniophis vespiformis 564
Neoseiulus cucumeris 1406
Orius minutus 1539
Orius sauteri 1539, 2612
Orius strigicollis 1402
Orius tantillus 1402, 1876

Thrips tabaci

biological control

beneficial insects 2201
 microbial pesticides 702
Neoseiulus cucumeris, Switzerland 140
 reviews 708

cotton, China 1661

greenhouse crops, Switzerland 140

pathogens

Verticillium fusisporum 1949
Verticillium lamellicola 1949
Verticillium lecanii 1949
Verticillium psalliotae 1949

predators

Aeolothrips intermedius 831
Aptus mirmicoides 831
Nabis fesus 831
Nabis punctatus 831
Orius majusculus 831
Orius niger 831
Scolothrips longicornis 831
Seiulus finlandicus 831
Stethorus punctillum 831
 Tydeidae 831
Zetzellia mali 831

Thyanta perditior, parasitoids, *Trissolcus ter-*
etis 772**Thyas barbiger**

hosts

Aedes annulipes 1015
Aedes cantans 1015
Aedes cataphylla 1015
Aedes communis 1015
Aedes punctator 1015

Thyasides sphagnum

hosts

Aedes dorsalis 359
Culex tarsalis 359
Culiseta inornata 359

Thysanoplusia orichalcea

biological control, predatory insects,
 India 229

pathogens

Aspergillus flavus 1620
 nuclear polyhedrosis viruses 226
 sunflowers, India 226, 229, 1620

Thysanoptera

aubergines 2214

biological control, *Orius* 2214

parasitoids, Hymenoptera 1206

predators

Carabidae 754
 Lycosidae 754
 Phytoseiidae 2114

strawberries, Belgium 186

Tibellus oblongus

grasslands, Germany 2160

prey, *Notostira elongata* 2160

Tillage

effects

parasitoids 2305
 predatory arthropods 263

Tilletia indica

antagonists

Gliocladium deliquescens 1424
Gliocladium roseum 1424
Gliocladium virens 1424
Trichoderma koningii 1424
Trichoderma pseudokoningii 1424
Trichoderma viride 1424

biological control 2126

wheat 2126

Tilletia tritici

antagonists, *Pseudomonas chlororaphis*

35

biological control, *Pseudomonas*
chlororaphis, Sweden 30
 wheat, Sweden 30

Tinea pellionella, parasitoids, *Apanteles*

carpatus 1728

Tineola bisselliella, parasitoids, *Apanteles*

carpatus 1728

Tipula oleracea

pathogens

Bacillus thuringiensis 1319
Heterorhabditis 639
Heterorhabditis bacteriophora 639
Heterorhabditis megidis 639
Photorhabdus luminescens 639

Tipula paludosa

biological control, North America 1704

lawns and turf, North America 1704

Titanoclea schineri, apple orchards, Hungary

1574

Tobacco

Meloidogyne javanica 248
Phthorimaea operculella, Japan 1646
 plant pathogenic fungi 2311
Pseudomonas solanacearum 2310
Pythium torulosum 2312
Rhizoctonia solani, Italy 2313

Tobacco fields, natural enemies, India 2321**Tobacco pests**, biological control, India,

books 934

Togo, *Prostephanus truncatus*, biological
 control, *Teretriosoma nigrescens* 339,
 1721**Tolyfluand**, nontarget effects,

Typhlodromus pyri 446

Tomato fields

Aeolothrips, Spain 2218
Encarsia formosa, Egypt 1411
 predatory arthropods, USA 138

Tomato greenhouses

Encarsia formosa 1536
 Hymenoptera, Belgium 1537
Macrolophus caliginosus, Poland 1532

Tomatoes

Aleyrodidae

Belgium 1537
 Japan 822
Bemisia tabaci, Egypt 1411, 1534
Botrytis cinerea 116
 Denmark 119

Fulvia fulva, Argentina 122

fungal pathogens 2206

Fusarium 126

Korea Republic 109

Fusarium oxysporum 131

Fusarium oxysporum f.sp. *lycopersici*
 111, 813, 1517, 2207

Fusarium oxysporum f.sp. *radicis-*
lycopersici 110, 128

Gibberella pulicaris, Russia 815

greenhouse pests, Switzerland 140

Helicoverpa armigera, India 1540, 1542-
 1543

Helicoverpa punctigera, Australia 819

integrated pest management 1542, 2217

India 2515

Liriomyza bryoniae, Channel Islands 829

Meloidogyne incognita 146, 150-154,
 158, 160, 2194, 2223-2227, 2229,
 2231

Meloidogyne javanica 145, 156-157, 159

Meloidogyne mayaguensis, Senegal 2228

Phytophthora infestans 121

Phytophthora nicotianae 123

plant pathogenic fungi 3

plant pathogens 814

Pythium 2210

Korea Republic 109

Pythium torulosum 2208

Tomatoes cont.

Ralstonia solanacearum 117, 1515

Rhizoctonia, Korea Republic 109

Rotylenchulus reniformis 155

Spodoptera litura 2215

Tetranychus urticae 821

Trialeurodes vaporariorum 1536

Poland 1532

Xanthomonas vesicatoria, North America
 1512

Toona sinensis, *Hypsipyla robusta*, China

281

Tortricidae

apples, USA 863

biological control

Bethylidae, New Zealand 1417

parasitoids, New Zealand 1416

Ukraine 1370

parasitoids

Agrotherutes lanceolatus 2654

Dolichogenidea tasmanica 846

Tortrix viridana, parasitoids, *Trichogramma*

2059

Torulopsis candida, antagonism, *Penicillium*

digitatum 2266-2267

Torymus, hosts, *Trupanea wheeleri* 1967**Torymus azureus**

hosts, *Kaltenbachiola strobis* 972

Picea abies forests, Poland 972

Torymus nigrirarsus, hosts, *Taxomyia taxi*,

UK 1672

Torymus rubi

hosts, *Diastrophus rubi* 871

population dynamics 871

Toxins, *Pimpla hypochondriaca* 1305**Toxomerus**, habitats, USA 714**Toxoptera aurantii**

Citrus, India 203

predators

Cheilomenes sexmaculata 203

Coccinella transversalis 203

Toxoptera citricida, hosts, *Lysiphebia*

japonica 549

Toxoptera citricidis

biological control, entomogenous fungi,

USA 2269

Citrus, USA 2269

Toxorhynchites rutilus

ecology 352

prey, *Aedes aegypti* 352

Trachypteris decostigma, biological control,

Steinernema carpocapsae 1394

Tracking, *Pareuchaetes pseudoinulata*,

radioactive tracers 1884

Tragopogon dubius, natural enemies, seed

predators 427

Transgenic plants, effects, natural enemies

2334

Transmission, *Leptospira interrogans* 344**Trapa**, biological control, insects, Asia 2506**Traps** Papers on specific types of trap, such
 as pitfall traps, bait traps, sticky traps
 etc. are indexed separately under these
 headings.**Triadimefon**, nontarget effects, entomoge-

nous fungi 2519

Trialeurodes abutiloneus

food plants, USA 269

pathogens, *Orthomyces aleyrodes* 269

Trialeurodes pergandeii, parasitoids, *Encarsia*

lanceolata 2107

Trialeurodes vaporariorum

biological control

Acletoxenus formosus, Italy 315

Aphelinidae 716

Encarsia formosa 1536

Belgium 177

Germany 1705

Switzerland 140

Macrolophus caliginosus 1709

Poland 1532

Metarhizium anisopliae 2103

Paecilomyces fumosoroseus, Japan

822

parasitoids, Belgium 1537

cotton 2338

China 1661

fruit vegetables 1536

Gerbera 1709

greenhouse crops 716

Switzerland 140

- Trialeurodes vaporariorum** cont.
 parasitoids
Encarsia formosa 2690
Encarsia inaron 701
Encarsia pergandiella 2338
Eretmocerus mundus 2338
 pathogens, *Verticillium lecanii* 1092
 roses, Germany 1705
 strawberries, Belgium 177
 tomatoes
 Belgium 1537
 Japan 822
 Poland 1532
- Trialeurodes variabilis**
 parasitoids
Amitus macgowni 84
Encarsia bellottii 84
- Triatoma brasiliensis**, pathogens, *Beauveria bassiana* 1041
- Triatoma infestans**
 biological control, *Beauveria bassiana* 1778
 pathogens
Beauveria bassiana 1041, 1769-1770, 2438
Metarhizium anisopliae 1769
- Triatoma lecuticularia**, pathogens, *Beauveria bassiana* 1041
- Triatoma picturata**, pathogens, *Beauveria bassiana* 1041
- Triatoma williamsi**, pathogens, *Beauveria bassiana* 1041
- Tribolium castaneum**
 parasitoids, *Cephalonomia tarsalis* 1276
 pathogens, *Beauveria bassiana* 2149
 predators, *Teretriosoma nigrescens* 2673
 rice commodities 2149
- Tribolium confusum**
 biological control
Bacillus thuringiensis 1722
Trichogramma evanescens, Germany 2409
 cereal grains, Germany 2409
 maize grain 1722
- Tricentrus gibbosulus**
Piper betle
 biological control, Acari, India 2315
 India 2315
- Trichapion lativentre**, *Sesbania punicea*, biological control, South Africa 407
- Trichoderma**
 antagonism
Alternaria solani 1902
Armillaria 245
Aspergillus niger 2300
Botryodiplodia theobromae 1900
Botrytis cinerea 658
Ceratocystis paradoxa 1628
Corticium rolsfii 992, 2037
Cylindrocladum 880
Fusarium 120
Fusarium equiseti 1628
Fusarium oxysporum f.sp. *cumini* 320
Fusarium oxysporum f.sp. *dianthi* 2375-2376
Fusarium udum 1480
Gibberella fujikuroi 992, 1628
Gibberella fujikuroi var. *subglutinans* 1628
Glomerella cingulata 876
Macrophomina phaseolina 992
Phoma 2374
Phytophthora infestans 121, 1525
Pythium 120
Pythium aphanidermatum 818
Rhizoctonia 120
Rhizoctonia solani 1528, 2037
Ustilago scitaminea 1628
 biological control, books 698
Botrytis cinerea
 biological control 2790
 Norway 167
 competitive ability 517
Fusarium oxysporum f.sp. *dianthi*, biological control 2378
Meloidogyne javanica, biological control 2232
 molecular biology, books 697
Phoma chrysanthemicola, biological control 2378
- Trichoderma** cont.
Phytophthora nicotianae var. *parasitica*, biological control 2264
 plant parasitic nematodes, biological control 1391
 reviews 2071
 soil fungi, biological control 1391
 sporulation 1973
- Trichoderma atroviride**
 antagonism, *Monilinia fructicola* 330
 antagonists, *Sclerotinia minor* 1096
 fungicides, nontarget effects 1096
- Trichoderma aureoviride**, identification 2756
- Trichoderma citrinoviride**, identification 2756
- Trichoderma hamatum**
 antagonism
Aspergillus niger 1619
Cochliobolus sativus 2131
Macrophomina phaseolina 2211
Rhizoctonia solani 112
Sclerotium rolsfii 2580
Corticium rolsfii, biological control 1477
Fusarium, biological control 126
Fusarium oxysporum, biological control 1700
Fusarium oxysporum f.sp. *dianthi*, biological control 2377
 identification 2756
- Trichoderma harzianum**
 antagonism
Alternaria 814
Aspergillus niger 1619
Balansia oryzae 443
Botrytis 814
Botrytis cinerea 65, 1479, 1523-1524
Cochliobolus lunatus 443
Corticium rolsfii 3, 812, 1482
Fusarium 806, 814
Fusarium oxysporum 2361
Fusarium oxysporum f.sp. *ciceris* 768
Fusarium oxysporum f.sp. *lycopersici* 443
Fusarium oxysporum f.sp. *zingiberi* 2391
Fusarium solani 3, 812, 840, 2152, 2299
Gibberella fujikuroi 1423
Glomerella cingulata 881
Glomerella tucumanensis 925
Macrophomina phaseolina 763, 2211, 2299
Nectria radicola 2361
Phytophthora 806
Phytophthora capsici 1513
Phytophthora colocasiae 1348
Pyrenophora tritici-repentis 2127
Pythium 814
Pythium aphanidermatum 2391
Pythium ultimum 1400
Rhizoctonia 806
Rhizoctonia solani 3, 64, 443, 812, 1295, 1400, 1497, 1848, 2100, 2122-2123, 2299, 2361
Sclerotinia sclerotiorum 515, 769
Sclerotium rolsfii 2580
Venturia inaequalis 443, 2236
Verticillium dahliae 653
 antagonists, *Magnaporthe salvinii* 731
Botrytis cinerea
 biological control 2, 308, 2790
 Croatia 1560
 Denmark 119
 fungicides, tolerance 443
Fusarium culmorum, biological control, Slovakia 1421
Fusarium oxysporum, biological control 1700, 2230, 2372
Fusarium oxysporum f.sp. *ciceris*, biological control 1476
Fusarium oxysporum f.sp. *dianthi*, biological control 2377
Fusarium oxysporum f.sp. *radicis-lycopersici*, biological control 110
Fusarium oxysporum f.sp. *sesami*, biological control, India 225
 hosts
Meloidogyne incognita 2227, 2637
Meloidogyne javanica 159, 2637
 identification 2756
- Trichoderma harzianum** cont.
Meloidogyne incognita, biological control 149
 molecular genetics 2708
Phytophthora capsici
 biological control, India 323
 integrated control, India 2393
 plant pathogenic fungi
 biological control 2311
 Israel 1511
 reviews 1401
 potato fields, India 81
Protomycopsis phaseoli, biological control 2164
Pythium vexans, biological control 1711
Rhizoctonia solani
 biological control 66, 68-69
 India 81
Sclerotinia sclerotiorum, biological control 96, 286, 2165
Sclerotium cepivorum, biological control 2195
 survival, soil 2048
- Trichoderma hirsutum**, antagonism, *Venturia inaequalis* 2236
- Trichoderma koningii**
 antagonism
Aspergillus niger 1619
Botrytis cinerea 1551
Cochliobolus carbonum 651
Dothiorella gregarius 651
Glomerella cingulata 881, 1586
Ralstonia solanacearum 651
Rhizoctonia solani 1497
Sclerotinia sclerotiorum 515, 651
Sclerotium rolsfii 2580
Tilletia indica 1424
Xanthomonas oryzae 651
 benomyl, nontarget effects 1822
 biological control, plant pathogenic fungi 2162-2163
Fusarium oxysporum f.sp. *radicis-lycopersici*, biological control 110
 hosts
Meloidogyne incognita 2637
Meloidogyne javanica 2637
Protomycopsis phaseoli, biological control 2164
Rhizoctonia solani, biological control 1481
- Trichoderma longibrachiatum**
 antagonism
Alternaria tenuissima 470
Balansia oryzae 443
Cochliobolus lunatus 443
Fusarium oxysporum f.sp. *lycopersici* 443
Rhizoctonia solani 443, 2122
Venturia inaequalis 443
 fungicides, tolerance 443
Fusarium oxysporum, biological control 1700
 identification 2756
- Trichoderma longisporum**, antagonism, *Aspergillus niger* 1619
- Trichoderma pseudokoningii**
 antagonism
Cochliobolus sativus 2131
Corticium rolsfii 2392, 2578
Tilletia indica 1424
- Trichoderma virens**
 antagonism
Pyrenophora tritici-repentis 2127
Rhizoctonia solani 1650
Sclerotinia minor 915
 dyes, effects 1353
- Trichoderma viride**
 antagonism
Aspergillus niger 1619
Botrytis cinerea 1551, 2168
Colletotrichum capsici 811
Corticium rolsfii 3, 812
Fusarium oxysporum 2361
Fusarium oxysporum f.sp. *zingiberi* 2391
Fusarium solani 3, 812
Gibberella pulicaris 815
Glomerella tucumanensis 925
Macrophomina phaseolina 763, 2211
Monilinia fructicola 330
Nectria radicola 2361

Trichoderma viride cont.

- antagonism cont.
Phytophthora colocasiae 1348
Pythium aphanidermatum 2391
Pythium ultimum 1400
Rhizoctonia solani 3, 812, 1400,
 1497, 2123, 2361
Sclerotinia sclerotiorum 1344
Tilletia indica 1424
Urocystis agropyri 23
Venturia inaequalis 2236
- antagonists
Bacillus circulans 1701
Bacillus coagulans 1701
Fusarium oxysporum f.sp. *niveum*
 2212
Magnaporthe salvinii 731
Sclerotinia minor 1096
Arthrobotrys cladodes, interactions 2221
 biological control, plant pathogenic fungi
 2162-2163
Botrytis cinerea, biological control 308,
 765, 2167
Corticium rolfii, biological control 1477
 culture media 2549
 formulations 2540
 fungicides, nontarget effects 1096
Fusarium oxysporum, biological control
 1700, 2372
Fusarium oxysporum f.sp. *cubense*, bio-
 logical control 1585
Fusarium oxysporum f.sp. *dianthi*, bio-
 logical control 2377
Fusarium oxysporum f.sp. *sesami*, bio-
 logical control, India 225
Fusarium oxysporum f.sp. *vasinfectum*,
 biological control 252
 hosts, *Bactrocera cucurbitae* 2234
 identification 2756
Macrophomina phaseolina, biological
 control, India 1474
 plant parasitic nematodes, interactions
 2221
 potato fields, India 81
Pythium aphanidermatum, biological con-
 trol 1473
Pythium vexans, biological control 1711
Rhizoctonia solani
 biological control 68
 India 27, 81
 seedborne organisms, biological control
 295

Trichogramma

- broccoli fields, Mexico 803
 computer techniques 475
 fields, China 100
 habitats, USA 714
Helicoverpa armigera, biological control,
 Japan 1356
 host-seeking behaviour 475, 819
 hosts
Chilo partellus 1442
Corcyra cephalonica 526
Helicoverpa punctigera 819
Mamestra brassicae 1635
Plutella xylostella 100
Protenusa thomsoni 1680
Tortrix viridana 2059
 identification, North America 2720
Mamestra brassicae, biological control,
 Japan 1405
 mass rearing 489, 1154, 1867
 pathogens, *Wolbachia* 1198
 rearing techniques 488, 1157
Spodoptera frugiperda, biological control
 1409
 sticky traps, monitoring 484
 sugarbeet fields, Japan 1635
- Trichogramma achaeae**, hosts, *Acherontia*
styx 2219
- Trichogramma australicum**
 hosts, *Helicoverpa armigera* 536-537,
 601, 2661-2662
 oviposition 601
- Trichogramma bouwarachae**
 hosts, *Helicoverpa armigera* 1197
 pathogens, *Wolbachia* 1248
 reproduction 1248
- Trichogramma brassicae**
 deltamethrin, nontarget effects 1108
 heat shock 2040

Trichogramma brassicae cont.

- Helicoverpa armigera*, biological control,
 Australia 733
 hosts
Ostrinia nubilalis 2040, 2078
Sitotroga cerealella 2078
Keiferia lycopersicella, biological control
 144
 rearing techniques 1165
- Trichogramma buesi**, rearing techniques
 1156
- Trichogramma cacaeciae**
 pesticides, nontarget effects 1119, 2535
 rearing techniques 1165
- Trichogramma chilonis**
 biological control, *Helicoverpa armigera*,
 India 781
Chilo auricilius, biological control, India
 1631
 cotton, interactions 1654
 dispersal 2688
 cotton fields, China 938-939
 endosulfan, toxicity 2522
Helicoverpa armigera, biological control,
 China 938
 host-seeking behaviour 781
 hosts
Acherontia styx 2219
Chilo sacchariphagus sacchariphagus
 1638
Corcyra cephalonica 1631, 2522
Earias 2337
Helicoverpa armigera 939, 1487,
 2172, 2337
Pectinophora gossypiella 2337
Plutella xylostella 2628
 insecticides
 nontarget effects 1835
 toxicity 1114
 intercropping, pigeon pea fields, India
 1487
 mineral oils, effects 1834
 monitoring, Taiwan 1639
 neem seed extracts, toxicity 2522
 organophosphorus pesticides, toxicity
 2522
 pigeon pea fields, India 2172
 pyrethroids, toxicity 2522
 release techniques 2541
 sugarcane fields, Taiwan 1638
- Trichogramma closterae**
 China 1213
 hosts
Cerura menciana 530
Closteria anachoreta 530
Gastropacha quercifolia 530
Leucoma salicis 530
Micromelalopha troglodyta 530
Smerinthus planus 530
Sphrageidus similis 530
 life cycle 1213
 overwintering 530
- Trichogramma cordubensis**, hosts,
Helicoverpa armigera 1197
- Trichogramma deion**
 identification, North America 2720
 pathogens, *Wolbachia* 1355
- Trichogramma dendrolimi**
Closteria anastomosis, biological control,
 China 960
 host preference 2683
 hosts, *Ostrinia furnacalis* 1978
 rearing techniques 1156, 1165, 1978
- Trichogramma embryophagum**
 hosts, *Thaumetopoea pityocampa* 1698
Pinus nigra forests, Bulgaria 1698
- Trichogramma evanescens**
Ephestia kuehniella, biological control,
 Denmark 2408
 hosts
Helicoverpa armigera 1197
Ostrinia nubilalis 1444, 2078
Sitotroga cerealella 2078
 stored products pests, biological control,
 Germany 2409
- Trichogramma exiguum**
 biology 869
 host-seeking behaviour 570
 hosts
Chilo partellus 570
Corcyra cephalonica 570

Trichogramma exiguum cont.

- hosts cont.
Euprocitis lunata 570
 Tortricidae 869
 Noctuidae, biological control, USA 262
- Trichogramma galloi**
 hosts
Diatraea rufescens 1988
Diatraea saccharalis 1988
Sitotroga cerealella 1988
- Trichogramma japonicum**
 hosts, *Scirpophaga incertulas* 1459
 insecticides, nontarget effects 1127
 rice fields, India 1459
- Trichogramma minutum**
Choristoneura fumiferana, biological
 control, Canada 950
 hosts, *Spodoptera exigua* 253
 parasitoids, interactions 950
- Trichogramma nagarkattii**, hosts, *Plutella*
xylostella 2628
- Trichogramma nerudai**, new species 1893
- Trichogramma nubilale**
 hosts, *Ostrinia nubilalis* 574
 oviposition 574
- Trichogramma ostrinae**
 hosts
Chilo sacchariphagus sacchariphagus
 1638
Ostrinia nubilalis 2078
Sitotroga cerealella 2078
 monitoring, Taiwan 1639
 rearing techniques 1880
 sugarcane fields, Taiwan 1638
- Trichogramma pintoi**, hosts, *Helicoverpa*
armigera 1197
- Trichogramma platneri**, *Cydia pomonella*,
 biological control, Canada 872
- Trichogramma pretiosum**
 biology 869
 carriers, toxicity 666
Ecdytolopha aurantianum, biological
 control 896
 environmental factors 1222, 1919
Helicoverpa armigera, biological control
 1540
 hosts
Diatraea rufescens 1988
Diatraea saccharalis 1988
Helicoverpa zea 1874, 1919, 2651
Plutella xylostella 2628
Sitotroga cerealella 1222, 1988
Spodoptera exigua 253
 Tortricidae 869
Tuta absoluta 1196
 identification, North America 2720
 insecticides
 nontarget effects 459
 toxicity 2538
Keiferia lycopersicella, biological control
 144
 population genetics 2713
 reproduction 2651
 synthetic diets, rearing techniques 1874
- Trichogramma principium**
 egg production 1207
 hosts, *Earias insulana* 1963
 temperature 1963
- Trichogramma trjapitzini**, hosts, *Plutella*
xylostella 2628
- Trichogrammatidae**
Buchloe dactyloides habitats, USA 982
 hosts, *Nilaparvata lugens* 1457
 rice fields, China 1457
- Trichogrammatoida armigera**
 hosts, *Helicoverpa armigera* 554
 temperature 554
- Trichogrammatoida bactrae**, hosts, *Plutella*
xylostella 2628
- Trichomalopsis**
 fields, China 100
 hosts, *Plutella xylostella* 100
- Trichomalopsis americana**, hosts,
Sarcophaga bullata 1017
- Trichomalopsis apantelotena**
 behaviour 1999
 hosts, *Blepharipa zebina* 1999, 2676
- Trichomalopsis apantelotenus**
 fields, China 100
 hosts, *Plutella xylostella* 100

- Trichomalopsis sarcophagae**
development 364
hosts
 Musca domestica 364
 Stomoxys calcitrans 364
- Trichomalopsis shiraki**
fields, China 100
hosts, *Plutella xylostella* 100
- Trichomalus perfectus**
esfenvalerate, nontarget effects 2295
hosts, *Ceutorhynchus assimilis* 1624,
 1626, 2013, 2295, 2298
population dynamics 2298
rape fields, USA 2295
searching behaviour 2013
- Trichoplusia ni**
biological control 700
broccoli, Mexico 803
diets 1237
parasitoids
 Patricloides montanus 1906
 Voria ruralis 803
pathogens
 Bacillus cereus 611
 Bacillus thuringiensis 611
 Bacillus thuringiensis subsp. *aizawai*
 1349
 Bacillus thuringiensis subsp. *bolivia*
 2712
 nuclear polyhedrosis viruses 624,
 1237
 Vairimorpha 539
predators, *Chrysoperla rufilabris* 494
South East Asia 700
- Trichopoda giacomellii**
fields, Brazil 1486
hosts
 Alciphron glaucas 2616
 Anaxarchus pardalinus 2616
 Cuspicona forticornis 2616
 Euschistus heros 1486
 Glaucias amyoti 2616
 Nezara viridula 1190, 1486, 2616
 Plautia affinis 2616
- Trichopoda pennipes**, hosts, *Mozena obtusa*
416
- Trichopria**
hosts
 Exorista bombycis 2416
 Musca domestica 2436
 Stomoxys calcitrans 2436
- Trichostrocilus horridus**, weeds, biological
control, USA 2473
- Trichostromyidae**, biological control, Bra-
zil 1030
- Trichostromylus axei**, biological control,
nematophagous fungi 2449
- Trichostromylus colubriformis**
biological control, *Duddingtonia*
 flagrans, Australia 377-378
sheep, Australia 377-378
- Trichosurus**
biological control, conferences 2092
ectoparasites
 Atellana papilio 1730
 Murichirus anabiotus 1730
 Petrogallochirus dycei 1730
New Zealand 1730
parasites
 Bertiella trichosuri 1730
 Parastrongyloides trichosuri 1730
 Parastrongylus trichosuri 1730
- Trichosurus arnhemensis**
Australia 1729
pathogens 1729
- Trichosurus caninus**
Australia 1729
parasites, *Marsupostrongylus mines* 1729
- Trichosurus vulpecula**
Australia 1729
New Zealand 2414-2415
parasites
 animal parasitic nematodes 1729
 Durikainema 1729
 Parastrongyloides trichosuri 1729
 Parastrongylus trichosuri 1729
pathogens
 Leptospira interrogans 344
 Retroviridae 2413
 viruses 2414-2415
- Trichothecium roseum**
antagonism
 Cochliobolus sativus 2131
 Venturia inaequalis 2236
antagonists
 Bacillus circulans 1701
 Bacillus coagulans 1701
- Triclistus**
hosts, *Zeiraphera canadensis* 2371
Picea glauca forests, Canada 2371
- Tricyclazole**, nontarget effects, predatory
insects 2534
- Tridiscus sporoboli**, parasitoids, *Rhopus*
nigroclavatus 1467
- Triflumuron**
nontarget effects, Coccinellidae 1621
toxicity, *Chrysoperla externa* 1831
- Trifluralin**, nontarget effects, *Burkholderia*
cepacia 251
- Trifolium alexandrinum**, *Spodoptera lit-*
toralis, Egypt 2153
- Triglochin**, biological control,
Rhynchosporium alismatis 2502
- Trigonospila brevifacies**
Epiphyas postvittana, biological control,
New Zealand 845
Tortricidae, biological control, New Zea-
land 1416
- Trionymus**, parasitoids, *Rhopus*
nigroclavatus 1467
- Trips longicaudatus**, weeds, biological con-
trol, Japan 2507
- Tripleurospermum perforatum**, biological
control, *Rhopalomyia*, Europe 1799
- Trirrhithrum coffeae**, parasitoids, *Fopius cer-*
atitvorus 2316
- Trissolcus basalis**
aggressive behaviour 589, 594, 2664,
 2668
Australia 589
hosts, *Agonoscelis rutila* 1275
intraspecific competition 1275
soyabean fields, Brazil 772
- Trissolcus brochymenae**, soyabean fields,
Brazil 772
- Trissolcus murgantiae**
fields, USA 6
hosts, *Murgantia histrionica* 6
- Trissolcus plautiae**, territoriality 2665
- Trissolcus teretis**
hosts, Pentatomidae 772
soyabean fields, Brazil 772
- Trissolcus urichi**
hosts, Pentatomidae 772
soyabean fields, Brazil 772
- Trochosa ruricola**
dimethoate, nontarget effects 1109
prey
 Brevicoryne brassicae 1414
 Metopolophium dirhodum 1414
 Rhopalosiphum padi 1414
 Sitobion avenae 1414
- Trogoderma granarium**
biological control, *Laelius pedatus* 2410
stored products 2410
- Tropics**, stored products pests, integrated
control 2405
- Trupanea dubautiae**, parasitoids, *Tetras-*
richus giffardianus 543
- Trupanea wheeleri**, parasitoids, Hymenop-
tera 1967
- Trybliographa rapae**
hosts, *Delia radicum* 563, 1278
searching behaviour, models 1278
sense organs 563
- Trypoxylon politum**
habitats, USA 2780
prey
 Eustala 2780
 Mimetidae 2780
 Neoscona 2780
 Salticidae 2780
- Tsetse fly virus**
hosts
 Glossina morsitans centralis 1758
 Glossina morsitans morsitans 1758
- Tsuga canadensis**, *Adelges tsugae*, USA 974
- Tuberculatulus annulatus**, predators, *Adalia*
bipunctata 676
- Turkey**
Acari, new geographic records,
 Morchella habitats 1714
Araneae, grasslands 2158
beneficial insects, apple orchards 865
Eretmocerus debachi, orchards 1610
Hymenoptera 883
weeds, biological control, fungi 2456
- Tuta absoluta**
parasitoids
 Goniozus nigrifemur 1196
 Trichogramma pretiosum 1196
predators 1196
 Brachygastra lecheguana 2526
- Tycheus osculator**
hosts, *Zeiraphera canadensis* 2371
Picea glauca forests, Canada 2371
- Tydeidae**
cucumber fields, Hungary 831
prey
 Miridae 831
 Tetranychus urticae 831
 Thrips tabaci 831
- Typhaea stercorea**
pathogens, *Steinernema feltiae* 2441
poultry housing, Denmark 2441
- Typhlocyba pomaria**
apples, USA 863
parasitoids, *Anagrus* 863
- Typhlodromalus manihoti**, prey,
 Mononychellus tanajao 1492
- Typhlodromus**, *Panonychus ulmi*, biological
control, Netherlands 2240
- Typhlodromus bambusa**
forests, Japan 1961
prey, *Schizotetranychus longus* 1961
- Typhlodromus bellinus**, taxonomy 2570
- Typhlodromus exilaratus**, vineyards, Italy
2254
- Typhlodromus invectus**, Lebanon 2747
- Typhlodromus kerkirae**
feeding behaviour 1489
prey
 Tetranychina harti 1489
 Tetranychus urticae 1489
- Typhlodromus negevi**
apple orchards, Egypt 1578
prey
 Bemisia tabaci 1959
 Cenopalpus pulcher 1578
 Tetranychus urticae 1959
- Typhlodromus occidentalis**
Acari, biological control, USA 1564
apple orchards
 Australia 867
 USA 185
behaviour 2022
development 1191
insecticides, nontarget effects 867, 1106
prey
 Panonychus citri 317
 Tetranychus urticae 867, 1191
reproduction 1251
vineyards, USA 1564
- Typhlodromus pyri**
Acari, biological control, Belgium 177
apple orchards
 France 1572
 USA 185
behaviour 2022
cannibalism 2658, 2691
environmental factors 1200
esfenvalerate, nontarget effects 1136
feeding behaviour 2023, 2697
fungicides, toxicity 179
horticultural crop fields, Spain 718
insecticides, nontarget effects 446, 1568,
 1826
Lebanon 2747
mancozeb, nontarget effects 1124
orchards, France 1568
Panonychus ulmi
 biological control
 France 172, 1572
 USA 180
Phytoseiidae, interspecific competition
 1313
plant extracts, nontarget effects 1383
predators, *Kampimodromus aberrans*
 2023

***Typhlodromus pyri* cont.**

prey

- Kampimodromus aberrans* 2023
- Panonychus citri* 317
- Panonychus ulmi* 1313
- Phytomemus pallidus* 862
- pyrethrin, nontarget effects 1827
- temperate fruit orchards, Spain 861
- vineyards

- France 179
- Italy 2254

***Typhlodromus serrulatus*, pear orchards,**

Japan 173

Typhula incarnata

- Agrostis stolonifera*, Canada 1463
- biological control
- Typhula phacorrhiza* 304
- Canada 1463

Typhula ishihariensis

- Agrostis stolonifera*, Canada 1463
- biological control
- Typhula phacorrhiza* 304
- Canada 1463

Typhula phacorrhiza

- Typhula*
- biological control 304
- Canada 1463

Tyrophagus putrescentiae*, predators, *Orius tantillus* 1876*UK**

- entomogenous fungi, spatial distribution, fields 2519
- Fasciola hepatica*, biological control 2452
- Heterobasidion annosum*, biological control, *Phlebiopsis gigantea* 1692
- Hyllobius abietis*, biological control, microbial pesticides 1688
- Hymenoptera
- crop fields 782
- fields 1318
- Lycoriella auripila*, biological control, entomophilic nematodes 2396
- stored products pests, biological control, natural enemies 2407
- Taxomyia taxi*, parasitoids 1672

Ukraine

- Aphidoletes aphidimyza*, greenhouses 310
- Aulacorthum solani*, *Aphidoletes aphidimyza*, biological control 310
- insect pests, biological control 948
- Microspora, new geographic records 362
- plant diseases, biological control 656
- Tortricidae, biological control 1370

Ulex europaeus

- biological control
- Australia 428
- Cydia succedana*, New Zealand 1806
- natural enemies, *Aceria genistae* 406

Ulmus

- Ophiostoma novo-ulmi* 958
- Spain 1686-1687
- Scolytidae, Spain 1686
- Ulmus americana*, *Pyrhalta luteola*, Canada 284

***Ulmus procera*, *Pyrhalta luteola*, USA 287**

- Ulocladium*, antagonism, *Fusarium oxysporum* f.sp. *cumini* 320

Ulocladium atrum

- antagonism, *Botrytis cinerea* 836, 1418
- Botrytis*, biological control 706
- Botrytis cinerea*, biological control 1151
- plant pathogenic fungi, biological control 305, 2125

Ultrastructure

- Chilocorus* 1970
- Exochomus* 1970
- Neoperezia chironomi* 561

Ultraviolet radiation

effects

- Bacillus thuringiensis* 659
- Beauveria bassiana* 2320
- Eublemma amabilis* 346
- parasitoids 823

Ummeliata insecticeps

prey

- Nilaparvata lugens* 1453
- Sogatella furcifera* 1453
- rice fields, China 737

Unaspis euonymi

- biological control
- Chilocorus kuwanae* 978
- natural enemies, USA 312
- Euonymus*, USA 312
- predators, *Cybocephalus nipponicus* 606

Unaspis yanonensis

- biological control, *Aphytis yanonensis*, France 884
- Citrus*, France 884
- parasitoids, *Coccidencyrus longicaudatus* 1179

Uncinula necator

- biological control
- bacteria 166
- Orthotydeus lambi*, USA 1563
- grapes 166
- USA 1563

Unguizetes clavatus*, arthropod pests, *Piper betle*, biological control, India 2315**Uranotaenia unguiculata***

- predators 1738
- Egypt 1738

Urban areas, *Culex quinquefasciatus*, China 356**Urea fertilizers, nontarget effects, predatory insects 2534*****Uresiphita reversalis*, food plants, *Genista* 1067*****Urocystis agropyri***

- antagonists
- Azotobacter chroococcum* 23
- Gliocladium vires* 23
- Trichoderma viride* 23
- wheat 23

Urolepis rufipes

hosts

- Musca domestica* 2436
- Stomoxys calcitrans* 2436

Uroleucon carthami

- predators
- Coccinella* 1621
- Coccinella septempunctata* 1621

Uroleucon compositae

- predators
- Cheilomenes sexmaculata* 2588
- Coccinella septempunctata* 2588
- Coccinella transversalis* 2588

Uroleucon ivae*, parasitoids, *Diaeretiella rapae* 1975**Uromyces*, weeds, biological control 2459*****Uromyces euphorbiae***

- Euphorbia heterophylla*, biological control 398
- Euphorbia hirta*, biological control 398

Urophorus humeralis

- dates 2278
- pathogens
- Heterorhabditis* 2278
- Heterorhabditis bacteriophora* 2278
- Steinernema riobrave* 2278

Uroplata fulvopustulata*, *Lantana camara*, Australia 421**Uroplata girardi*, *Lantana camara*, Australia 421*****Uroplata lantanae*, *Lantana camara*, Australia 421****Uruguay, *Sirex noctilio*, biological control 2094****USA**

- Adelges tsugae*, biological control, *Pseudoscyrmus tsugae* 974
- aquatic weeds, biological control, insects 439
- Beauveria bassiana*, poultry housing 382
- beneficial insects, cotton fields 268
- Centaurea diffusa*, biological control, *Sphenoptera jugoslavica* 405
- Centaurea solstitialis*, biological control, insects 2497
- Cirsium*, biological control, *Rhinocyllus conicus* 420
- cotton, integrated pest management 2340
- forest pests, biological control, reviews 1664
- Gaeumannomyces graminis* var. *tritici*, biological control, *Phialophora* 32
- Hypera postica*, biological control, reviews 1471
- Lygus*, biological control 256

USA cont.

- Lymantria dispar*, biological control, nuclear polyhedrosis viruses 962-963
- Lythrum salicaria*, biological control 2484
- natural enemies, soybean fields 770
- Panonychus ulmi*, biological control, Phytoseiidae 180
- Peristenus*, lucerne fields 762
- Plutella xylostella*, biological control, *Cotesia plutellae* 800
- Propylea quatuordecimpunctata* 1917
- Tamarix chinensis*, biological control, insects 1055
- weeds
- biological control 424
- insects 430

USA (Alabama)

- Coccinellidae, pecan orchards 910
- Orthomyces aleyrodes*, cotton fields 269
- Xanthomonas vesicatoria*, biological control, bacteria 1512

USA (Arizona)

- Bemisia*, biological control 261
- Bemisia argentifolii*, biological control, entomogenous fungi 260
- Biosteres juglandis*, *Juglans major* forests 221
- Rhizoctonia solani*, biological control, *Burkholderia cepacia* 251

USA (Arkansas)

- beneficial arthropods, cotton fields 942
- Heliothis virescens*
- biological control
- Bacillus thuringiensis* subsp. *kurstaki* 2330
- Microplitis croceipes* 2330
- Mythimna unipuncta*, biological control, *Bacillus thuringiensis* 2144

USA (California)

- Acari
- biological control
- Eotetranychus willamettei* 1564
- Typhlodromus occidentalis* 1564
- vineyards 1564
- beneficial insects, habitats 714
- Candida oleophila*, population dynamics, orange orchards 1587
- Centaurea solstitialis*, biological control, *Chaetorellia* 2472
- Chrysoperla carnea*, cotton fields, predation 1656
- Chrysoperla rufilabris*, vineyards 1145
- cotton, weeds, biological control 265
- Eretmocerus eremicus*, cotton fields 271
- Frankliniella occidentalis*, biological control, *Beauveria bassiana* 314, 709
- grapes, integrated pest management 1583
- Hymenoptera, *Citrus* orchards 208
- Pyrhalta luteola*
- biological control, *Oomyzus gallerucae* 287
- Ulmus procera* 287
- vineyards, beneficial organisms 874
- Zelus renardii*, cotton fields 270

USA (Colorado), *Centaurea diffusa*, integrated control, *Sphenoptera jugoslavica* 2499**USA (Connecticut)**

- Compsilura concinnata*, genetic variation 2033
- Otiorynchus sulcatus*, biological control, entomophilic nematodes 988

USA (Delaware), *Macrocentrus cingulum*, maize fields 745**USA (Florida)**

- aquatic weeds, biological control, insects 2504
- Curculionidae, biological control, *Steinernema* 2274
- Diadegma insulare*, cabbage fields 800
- Eichhornia crassipes*
- biological control, *Neochetina* 2503, 2505
- integrated control 2505
- Hymenoptera, cabbage fields 1498
- Melaleuca quinquenervia*, biological control, *Botryosphaeria ribis* 2494
- Opuntia stricta*, biological control, *Cactoblastis cactorum* 413

USA (Florida) *cont.*

- Phyllocnistis citrella*
biological control
- Ageniaspis citricola* 211
- Cirrospilus ingenuus* 2284
- predatory insects, orange groves 199
- Schinus terebinthifolius*, biological control, *Heteroperreya hubrichi* 1069
- Toxoptera citricidus*, biological control, entomogenous fungi 2269
- Xanthomonas vesicatoria*, biological control, bacteria 1512

USA (Georgia)

- Aphis gossypii*, biological control, *Neozygites fresenii* 258
- Coccinellidae, pecan orchards 909-910, 2294
- cotton fields, beneficial arthropods 936
- Diprion similis*, parasitoids 1673
- predatory arthropods, cotton fields 263
- Pteromalidae, hydrocarbons, poultry farms 1767
- Sphecidae, habitats 2780
- Trichomalus perfectus*, rape fields 2295

USA (Hawaii)

- beneficial insects, pineapple plantations 1616
- Coccinia grandis*, biological control, *Acythopeus* 1065
- Erythroxylum coca*, biological control, *Fusarium oxysporum* 391, 2483
- Hedychium gardnerianum*, biological control, *Ralstonia solanacearum* 2463
- Hypothenemus obscurus*, biological control, Coleoptera 1618
- Pheidole megacephala*
pineapple orchards 902
- pineapple plantations 1616
- Tetrastichus giffardianus* 543

USA (Idaho)

- Fusarium*, biological control, *Streptomyces griseoviridis* 282
- Peristenus*, lucerne fields 761
- Peristenus howardi*, new species, lucerne fields 2157

USA (Iowa)

- beneficial insects, maize fields 1443
- Carabidae
maize fields 1449
- roadsides 1449
- Coccinellidae, potato fields 786

USA (Kansas)

- Coccinellidae, pecan orchards 2294
- Orius insidiosus*, maize fields 1432

USA (Kentucky)

- Coccinellidae, sweetcorn fields 1448
- Coleomegilla maculata*, maize fields 1441

- parasitoids, maize grain 340

USA (Louisiana)

- Phyllocnistis citrella*, biological control, *Ageniaspis citricola* 887

USA (Maine)

- Compilura concinnata*, genetic variation 2033
- Harpalus rufipes*, seed predation 89

USA (Maryland)

- Coleoptera, phenology, lucerne fields 1469
- Erythroxylum coca*, biological control, *Fusarium oxysporum* 391
- Frankliniella occidentalis*, biological control, *Beauveria bassiana* 709
- Lymantria dispar*, biological control, *Entomophaga maimaiga* 1360
- predatory insects, potato fields 90

USA (Massachusetts)

- Lymantria dispar*, biological control, nuclear polyhedrosis viruses 1683
- Unaspis euonymi*, biological control, natural enemies 312

USA (Michigan)

- aquatic plants, biological control, insects 437
- Compilura concinnata*, genetic variation 2033
- Hymenoptera, habitats, maize fields 1452
- Pterostichus*, maize fields 2147
- Scarabaeidae, golf courses 2159
- USA (Minnesota), Coccinellidae, predation, maize fields 1451

USA (Mississippi)

- Aphis gossypii*, biological control, *Neozygites fresenii* 2336
- Noctuidae, biological control, nuclear polyhedrosis viruses 2331

USA (Missouri)

- beneficial insects, *Quercus* forests 1685
- weeds
biological control
fungi 2473
- insects 2473

USA (Montana)

- Centaurea maculosa*
biological control, *Agapeta zoegana* 2495
- integrated control, *Cyphocleonus achates* 2496
- Convolvulus arvensis*, biological control, *Aceria malherbae* 2478
- weeds
biological control
fungi 2473
- insects 2473

USA (Nebraska)

- beneficial arthropods, *Buchloe dactyloides* habitats 982
- Encyrtidae, *Buchloe dactyloides* fields 1465
- Rhopus nigroclavatus*, *Buchloe dactyloides* fields 1467
- Schizocosa*, grasslands 1003

USA (New Jersey)

- Lymantria dispar*, biological control, pathogens 289
- Otiorthynchus sulcatus*
biological control
Heterorhabditis bacteriophora 2261
- Heterorhabditis marelatus* 2261

USA (New York)

- beneficial insects, potato fields 2193
- Compilura concinnata*, genetic variation 2033
- Otiorthynchus ligustici*, biological control, *Heterorhabditis bacteriophora* 1468
- Plutella xylostella*
biological control, *Beauveria bassiana* 103
- Brassicaceae 103
- predatory arthropods, cabbage fields 2204
- Ucinula necator*, biological control, *Orthoryzomys lambi* 1563

USA (North Carolina)

- Beauveria bassiana*, genetic variation 2034
- Leptinotarsa decemlineata*, biological control, *Bacillus thuringiensis* subsp. *tenebrionis* 92
- Noctuidae, biological control, *Trichogramma exiguum* 262

- Xanthomonas vesicatoria*, biological control, bacteria 1512

USA (North Dakota)

- Syngrapha tetanopsis*, sugarbeet fields 242

USA (Ohio)

- parasitoids, maize fields 1455
- predatory arthropods, tomato fields 138
- Xanthomonas vesicatoria*, biological control, bacteria 1512

USA (Oklahoma)

- Coccinellidae, pecan orchards 909
- Puccinia carduorum*, *Carduus thoermeri* 395

USA (Oregon)

- Braconidae, *Pinus contorta* forests 2370
- Neoseiulus fallacis*, hop gardens 2322
- Panonychus citri*, biological control, *Amblyseius fallacis* 317
- Peristenus*, lucerne fields 761
- predatory mites, apple orchards 185
- Tetranychus urticae*, biological control, *Neoseiulus fallacis* 2322

USA (Pennsylvania)

- Compilura concinnata*, genetic variation 2033

USA (South Carolina)

- Hymenoptera, sweet potato fields 83

USA (South Dakota)

- Carabidae, fields 13
- predators, wheat fields 2143

USA (Texas)

- Ambrosia grayi*, biological control, *Rhizoctonia solani* 397
- Aphis gossypii*, biological control 259
- Hymenoptera, *Citrus* orchards 2283
- Mozena obtusa*, population dynamics 416
- Noctuidae, biological control, nuclear polyhedrosis viruses 264
- Phyllocnistis citrella*, biological control, *Ageniaspis citricola* 2283
- predatory arthropods
cotton fields 2342
- movement, fields 267
- USA (Utah), *Bacillus thuringiensis*, persistence 679
- USA (Vermont), *Popillia japonica*, biological control, *Pteridium aquilinum* 1802
- USA (Virginia)
beneficial insects, Cucurbitaceae fields 1547
- Hymenoptera, fields 6
- weeds
biological control
fungi 2473
- insects 2473

USA (Washington)

- Anagrus*, apple orchards 1843
- Cacopsylla pyricola*, biological control, *Formica neoclara* 2251
- Diaeretiella rapae*, new host records 1975

- natural enemies, apple orchards 863

- Peristenus*, lucerne fields 761

USA (West Virginia)

- Beauveria bassiana*, genetic variation 2034

USA (Wisconsin)

- Linaria vulgaris*, biological control, *Eteobalea serratiella* 2402

USA (Wyoming)

- Braconidae, *Pinus contorta* forests 2370
- Hypera postica*, biological control, *Bathyleptes* 759

- parasitoids, barley fields 2148

Usage, entomophilic nematodes 2787

Uscana

- Callosobruchus maculatus*, biological control, West Africa 2411
- Uscana chilensis*
hosts, *Bruchus pisorum* 1893
- new species 1893

Uscana espiniae

- hosts
Pseudopachymerina spinipes 1893
- Scutobrachus ceratioborus* 1893
- new species 1893

Uscana lariophaga

- hosts, *Callosobruchus maculatus* 776, 1720

Uscana senex

- Bruchus pisorum*, biological control 1719
- pea stores 1719

Ustilago

- antagonists, *Pseudomonas chlororaphis* 35

Ustilago scitaminea

- antagonists, *Trichoderma* 1628

Ustilago segetum

- barley, Sweden 30

- biological control, *Pseudomonas chlororaphis*, Sweden 30

Ustilago segetum var. avenae

- biological control, *Pseudomonas chlororaphis*, Sweden 30

- oats, Sweden 30

Ustilago segetum var. tritici

- biological control 2126

- wheat 2126

Utetes anastrephae

- diversity, orchards, Mexico 1615

- forests, Mexico 953

- hosts
Anastrepha 953

- Anastrepha suspensa* 2275

- Tephritidae 891

Utetheisa pulchella

- pathogens, *Steinernema* 555

Vaccinium corymbosum fields

- Cyzenis albicans*, Canada 1570

Vairimorpha

- hosts
Plutella xylostella 1932

- Trichoplusia ni* 539

Vairimorpha lymantriae

- sugars 2046

Vairimorpha necatrix

- sugars 2046

- Vallisneria**, biological control,
Rhynchosporium alismatis 2502
- Vallisneria americana**, biological control,
insects, USA 2504
- Vamidothion**, nontarget effects,
Typhlodromus pyri 1568
- Vanellus indicus**
prey
Agriotes 1491
Agrotis 1491
Holotrichia 1491
- Vegetable fields**, parasitoids, Indonesia 12
- Vegetables**
Frankliniella occidentalis
Morocco 709
USA 709
integrated pest management 1818
Liriomyza sativae, China 2106
plant pathogens 812
- Venezuela**
Anopheles aquasalis, integrated control,
Bacillus thuringiensis subsp.
israelensis 1742
Cosmopolites sordidus, biological control,
entomophilic nematodes 2077
- Venturia**, hosts, *Galleria mellonella* 667
- Venturia canescens**
feeding behaviour, models 2699
flour mills, Portugal 1726
hosts
Ephestia kuehniella 1310-1311, 1726,
1971
Plodia interpunctella 1310-1311,
2684, 2699, 2778
molecular genetics 2036
reproductive behaviour 2684
- Venturia inaequalis**
antagonists
Athelia 2236
Chaetomium globosum 2236
Chaetomium olivaceum 2236
Myrothecium roridum 2236
Trichoderma harzianum 443, 2236
Trichoderma hirsutum 2236
Trichoderma longibrachiatum 443
Trichoderma viride 2236
Trichothecium roseum 2236
- Verticillium**
antagonists, *Pseudomonas fluorescens*
2327
molecular genetics 2027
- Verticillium biguttatum**
antagonism, *Rhizoctonia solani* 2100,
2313
Rhizoctonia solani, biological control,
Netherlands 784
- Verticillium chlamydosporium**
culture techniques 499
formulations 499
free living nematodes, biological control
685
Heterodera schachtii, biological control
244
hosts
Globodera 2190
Heterodera 2190
Heterodera schachtii 244
Meloidogyne 148
Meloidogyne incognita 108
Pentalonia nigronervosa 2394
Meloidogyne incognita, biological control
151, 2225
Nematoda, biological control 1385
- Verticillium dahliae**
antagonists
Bacillus subtilis 79
Fusarium oxysporum 79
Glucoladium roseum 79
Talaromyces flavus 79
Trichoderma harzianum 653
biological control
Pythium oligandrum 124
Talaromyces flavus 130
Capsicum 124
Ophiostoma novo-ulmi, biological control,
Spain 1686-1687
Solanaceae 130
vegetables 79
- Verticillium fusisporum**
hosts
Alphitobius diaperinus 1949
- Verticillium fusisporum** cont.
hosts cont.
Bemisia tabaci 1949
Musca domestica 1949
Myzus persicae 1949
Thrips tabaci 1949
- Verticillium lamellicola**
hosts
Alphitobius diaperinus 1949
Bemisia tabaci 1949
Musca domestica 1949
Myzus persicae 1949
Thrips tabaci 1949
- Verticillium lecanii**
antagonism, *Hemileia vastatrix* 1645
application methods 1852
Boophilus microplus, biological control,
Cuba 1777
Botrytis cinerea, biological control, Den-
mark 119
Camponotus compressus, biological control
2451
culture techniques 1159
dyes, effects 1353
enzymes 2038
Frankliniella occidentalis, biological control
2104
fungicides, toxicity 1092
growth 1214
hosts
Alphitobius diaperinus 1949
Aphidius nigripes 1215
Aphis fabae 2721
Aphis gossypii 1092, 2721
Bemisia argentifolii 2596
Bemisia tabaci 1949, 2601
Blatella germanica 2440
Boophilus microplus 1043
Camponotus compressus 2573
Ceroplastes destructor 886
Ceroplastes sinensis 886
Eriosoma lanigerum 864
Macrosiphum euphorbiae 2622
Megalurothrips sjostedi 1209
Meloidogyne incognita 146
Musca domestica 1949
Myzus persicae 1949
Pentalonia nigronervosa 2397
Quadria pakistana 1598
Thrips tabaci 1949
Trialeurodes vaporariorum 1092
Philephedra tuberculosa, biological control,
Colombia 2280
spraying equipment 2539
- Verticillium psalliotae**
hosts
Alphitobius diaperinus 1949
Bemisia tabaci 1949
Musca domestica 1949
Myzus persicae 1949
Thrips tabaci 1949
- Vesicular arbuscular mycorrhizas**, antago-
nism, *Meloidogyne incognita* 2789
- Vespa orientalis**
lemon orchards, India 198
prey
Chilades lajus 198
Papilio demoleus 198
- Vespa tropica**, prey, *Spodoptera litura* 1188
- Vespidae**
prey
Macrosiphum euphorbiae 1531
Myzus persicae 1531
- Vespa**, parasitoids, *Sphecochaga vesparum*
vesparum 2443
- Vespa vulgaris**
New Zealand 1045
Nothofagus forests, New Zealand 2353
prey, Lepidoptera 2353
Sphecochaga vesparum, biological control,
New Zealand 1045
- Vietnam**, *Paraponyx stagnalis*, biological
control, fishes 734
- Vigna catjang fields**, *Coccinellidae*, India
2179
- Vigna radiata**, *Meloidogyne javanica* 2180
- Vinclozolin**
nontarget effects, *Trichoderma* 1096
toxicity, *Adalia bipunctata* 1829
- Vineyards**
Acari, USA 1564
- Vineyards** cont.
Aphelopus, Italy 2253
beneficial organisms, USA 874
Chrysoperla rufilabris, USA 1145
Eretmocerus debachi, Turkey 1610
Kampimodromus aberrans, Italy 1839
predatory insects, Italy 852
predatory mites
Germany 2256
Italy 2254
Typhlodromus pyri, France 179
- Viola arvensis**
biological control, *Mycocentrospora*
acerina 2490
wheat 2490
- Viruses**
hosts, *Trichosurus vulpecula* 2414-2415
plant pathogenic fungi, biological control
958
Xanthomonas hortorum pv. *pelargonii*,
biological control 981
- Vitex negundo** extracts, nuclear
polyhedrosis viruses, interactions 2516
- Vochysia guatemalensis** plantations, benefi-
cial insects, Costa Rica 965
- Volatile compounds**, effects, predators 2681
- Voria ruralis**
broccoli fields, Mexico 803
hosts, *Trichoplusia ni* 803
- Vulpia bromoides**, biological control, France
426
- Vulpia myuros**, biological control, France
426
- Waldsteinia ternata**, *Otiorynchus sulcatus*,
Italy 2382
- Walzia indiana**, arthropod pests, *Piper betle*,
biological control, India 2315
- Water balance**, *Ageniaspis citricola* 1372
- Water containers**, *Aedes aegypti*, Thailand
357
- Watercress**, *Plutella xylostella*, USA 795
- Watermelons**
Fusarium 126
Fusarium oxysporum f.sp. *niveum*, China
2212
- Weeds**
allelopathy, reviews 2498
biological control 2455, 2458, 2489
Australia 389
books 386
Canada 1786
China 1352
ducks 1083
fungi 2459
Turkey 2456
models 432
reviews 387
South Africa 2457
Triops longicaudatus, Japan 2507
Frankliniella occidentalis, Italy 852
Noctuidae, USA 2331
Orius, Egypt 2110
- West Africa**
Callosobruchus maculatus, biological
control, parasitoids 2411
Simuliidae, biological control, *Bacillus*
thuringiensis subsp. *israelensis*
1749
- Wheat**
Aphidoidea, Germany 1450
Cephus cinctus, USA 726
Cochliobolus sativus 2131
Diuraphis noxia
China 46
Czech Republic 2139
Epilachna similis, Ethiopia 752
Eurygaster integriceps, Russia 43
Fusarium culmorum, Finland 18
Gaeumannomyces graminis var. *tritici*,
USA 32
insect pests
China 1461
natural enemies, Slovakia 1460
plant pathogenic fungi 2124-2126
plant pathogens 20
Pyrenophora tritici-repentis 2127
Tilletia tritici, Sweden 30
Urocystis agropyri 23
Viola arvensis 2490
- Wheat fields**
Araneae, Germany 738

- Wheat fields** *cont.*
 beneficial arthropods, China 1461
 beneficial insects
 Australia 751
 Slovakia 1460
 Carabidae
 Poland 467
 USA 13
 Coccinellidae, India 1446
 natural enemies, Egypt 1456
 predators, USA 2143
 predatory insects, Hungary 17
Scymnus tachengius, China 46
Telenomus, Russia 43
- Wheat flour**, *Ephestia kuehniella*, Scandinavia 1723
- Wild plants**, beneficial insects, USA 714
- Winthemia quadripustulata**
 hosts, *Mamestra configurata* 1887
 keys 1887
- Winthemia rufopicta**
 hosts, *Mamestra configurata* 1887
 keys 1887
- Wiseana cervinata**, pathogens, nuclear polyhedrosis viruses 2029
- Wiseana signata**, pathogens, nuclear polyhedrosis viruses 2029
- Wiseana umbraculata**, pathogens, nuclear polyhedrosis viruses 2029
- Wolbachia**
 hosts
 Diptera 2608
 Hymenoptera 2608
 Trichogramma 1198
 Trichogramma bourarachae 1248
 Trichogramma deion 1355
 insect pests, biological control 650
- Wollastoniella rotunda**, *Thrips palmi*, biological control 889
- Wood destroying fungi**
 antagonists 1342
 biological control, reviews 2403
 forest products 2403
- Xanthium**
 biological control, fungi, Australia 275
 cotton, Australia 275
- Xanthium occidentale**, natural enemies, *Zygogramma bicolorata* 417
- Xanthium spinosum**
 antagonists
 Cercospora xanthicola 1792
 Colletotrichum orbiculare 1792
 biological control
 Colletotrichum orbiculare 2481
 fungi, Australia 275
 cotton, Australia 275
- Xanthium strumarium**, *Trialeurodes abutiloneus*, USA 269
- Xanthomonas axonopodis** *pv. dieffenbachiae*, antagonists, bacteria 2379
- Xanthomonas campestris**, *Poa annua*, biological control, Japan 318
- Xanthomonas campestris** *pv. campestris*
 antagonists
 Alcaligenes piechaudii 794
 Kluyvera ascorbata 794
- Xanthomonas campestris** *pv. poannua*, *Poa annua*, biological control 1061
- Xanthomonas hortorum** *pv. pelargonii*
 biological control, viruses 981
Pelargonium 981
- Xanthomonas oryzae**
 antagonists, *Trichoderma koningii* 651
 biological control, *Pseudomonas fluorescens* 29
 rice 29
- Xanthomonas oryzae** *pv. oryzae*
 antagonism, *Xanthomonas oryzae* *pv. oryzae* 730
 antagonists
 Azospirillum brasilense 1420
 Bacillus polymyxa 1420
 Bacillus subtilis 723
 bacteria 2072
 Xanthomonas oryzae *pv. oryzae* 730
 biological control, China 25
 rice 730, 1420
 China 25
 plant pathogens, biological control, China 28
- Xanthomonas translucens** *pv. poae*, *Poa annua*, biological control 57
- Xanthomonas vesicatoria**
 antagonists, *Bacillus subtilis* 2548
 biological control, bacteria, North America 1512
 tomatoes, North America 1512
- Xanthopimpla rhopaloceros**
Epiphyas postvittana, biological control, New Zealand 845
 Tortricidae, biological control, New Zealand 1416
- Xanthozona melanopyga**
 hosts, *Brassolis sophorae* 1221
 life history 1221
- Xenorhabdus**
Heterorhabditis, interactions 2644
Steinernema, interactions 2644
- Xenorhabdus bovienii**
 hosts
 Galleria mellonella 625
 Locusta migratoria 625
 Manduca sexta 625
 Spodoptera littoralis 625
 lecithinase 625
- Xenorhabdus nematophilus**
 hosts
 Galleria mellonella 625
 Locusta migratoria 625
 Manduca sexta 625
 Spodoptera littoralis 625
 lecithinase 625
- Xiphidria longicollis**
 parasitoids
 Allodorus tuberculator 967
 Pristaulacus compressus 967
 Rhyssella approximata 967
 Spathius rubidus 967
 Xorides 967
 Quercus robur, Italy 967
- Xorides**
 hosts, *Xiphidria longicollis* 967
Quercus robur forests, Italy 967
- Xylocoris**, prey, *Tuta absoluta* 1196
- Xysticus cristatus**, grasslands, Germany 2160
- Xysticus kochi**, apple orchards, Hungary 1574
- Yeasts**
 antagonism
 Botrytis cinerea 1523, 2268
 Colletotrichum musae 194
 Penicillium digitatum 2267-2268
 Penicillium expansum 2239
 Penicillium glabrum 516
 Penicillium italicum 2268
 Aspergillus flavus, biological control 905
 Botrytis cinerea, biological control 116
 hosts, *Rhynchosporium secalis* 1367
 postharvest decay, biological control 1558
- Yponomeuta malinellus**
 apples, Germany 851
 parasitoids, *Ageniaspis fuscicollis* 851
- Zabrotes subfasciatus**, parasitoids, *Stenocorse bruchivora* 101
- Zagella**, hosts, *Homalodisca coagulata* 662
- Zagrammosoma multilineatum**, *Citrus* orchards, USA 2283
- Zaniothrips ricini**
Piper betle
 biological control, Acari, India 2315
 India 2315
- Zanzibar**, *Oecophylla longinoda*, coconut plantations 235
- Zarhopalus debarri**
 hosts, *Oracella acuta* 1178
 new species 1178
- Zea diploperennis** fields, Mymaridae, seasonal fluctuations, Mexico 1434
- Zeiraphera canadensis**
 parasitoids
 Ascogaster 2371
 Clinocentrus 2371
 Earinus zeirapherae 2371
 Lamachus 2371
 Triclistus 2371
 Tycherus osculator 2371
 Picea glauca, Canada 2371
- Zele albiduarius**, hosts, *Epirrita autumnata* 1666
- Zelus renardii**
 cotton fields, USA 270
 feeding behaviour 270
- Zetzellia mali**
 apple orchards 1569
 USA 185
 apple stores, Poland 1715
 cucumber fields, Hungary 831
 cypermethrin, nontarget effects 1569
 insecticides, nontarget effects 1826
 prey
 Miridae 831
 Panonychus ulmi 1569
 Tetranychidae 1569
 Tetranychus urticae 831
 Thrips tabaci 831
 Tetranychus urticae, biological control, Hungary 831
- Zetzellia talhouki**, Lebanon 2747
- Zeuzera pyrina**, biological control, entomophilic nematodes, Egypt 1393
- Zingiber officinale**, *Corticium rolfii* 2392
- Ziziphus mauritiana**
Quadria pakistanica, Taiwan 1598
Sireblote siva, India 2348
Thiacidas postica, India 2273
- Ziziphus mauritiana** orchards, beneficial arthropods, China 894
- Zoysia japonica**, *Rhizoctonia solani* 307
- Zygina rhanni**
 parasitoids
 Aphelopus atratus 2253
 Aphelopus serratus 2253
- Zygobira carpini**, parasitoids, *Aprostocetus affinis* 2355
- Zygogramma bicolorata**
 feeding behaviour 417
 food plants
 Ambrosia artemisiifolia 417
 Parthenium hysterophorus 417, 2475
 sunflowers 417
 Xanthium occidentale 417
 parasitoids, *Erixestus zygogrammae* 388
Parthenium
 biological control, India 412
 India 1794
 Parthenium hysterophorus, biological control, India 1801
- Zygomycotina**, antagonists, *Rhodotorula gracilis* 2576
- Zygorhynchus moelleri**, *Fusarium oxysporum*, biological control 1700
- Zygoribatula keralensis**, food plants, *Chromolaena odorata* 2474

LIST OF SERIALS ABSTRACTED

Listed below are the titles of the serial publications (excluding most annual reports and conference proceedings) abstracted during 1999 for this journal.

Many other serials were scanned during 1999 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1995 edition*. The publication includes ISSN and publishers' addresses.

- Abhandlungen und Berichte des Naturkundemuseums Görlitz
 Acarologia
 ACIAR Proceedings Series
 ACIAR Technical Reports Series
 Acta Agriculturae Universitatis Henanensis
 Acta Agriculturae Zhejiangensis
 Acta Entomologica Chilena
 Acta Entomologica Sinica
 Acta Fytotechnica et Zootechnica
 Acta Gossypii Sinica
 Acta Horticulturae
 Acta Microbiologica et Immunologica Hungarica
 Acta Oecologica
 Acta Phytopathologica et Entomologica Hungarica
 Acta Phytopathologica Sinica
 Acta Phytophylacica Sinica
 Acta Scientiarum Naturalium Universitatis Sunyatseni
 Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis
 Acta Universitatis Agriculturae Sueciae - Agraria
 Acta Virologica
 Acta Zoologica Mexicana
 Advances in Agricultural Research in India
 Advances in Agronomy
 Advances in Horticultural Science
 African Entomology
 African Farming and Food Processing
 African Journal of Mycology and Biotechnology
 African Plant Protection
 AFZ/Der Wald, Allgemeine Forst Zeitschrift für Waldwirtschaft und Umweltvorsorge
 Agnote (Darwin)
 Agrarökologie
 Agricultura, Revista Agropecuaria
 Agricultural and Forest Entomology
 Agricultural Science Digest (Karnal)
 Agricultural Systems
 Agriculture, Ecosystems & Environment
 Agro Food Industry Hi-Tech
 Agro-Ciencia
 Agrochemicals Japan
 Agronomía Colombiana
 Agronomía Costarricense
 Agronomía Mesoamericana
 Alexandria Journal of Agricultural Research
 Allelopathy Journal
 American Entomologist
 American Fern Journal
 American Journal of Alternative Agriculture
 American Journal of Tropical Medicine and Hygiene
 American Naturalist
 Anais da Sociedade Entomológica do Brasil
 Anale Institutul de Cercetări pentru Legumicultură și Floricultură, Vidra
 Animal Behaviour
 Annales de l'Institut Phytopathologique Benaki
 Annales de la Société Entomologique de France
 Annals of Agri Bio Research
 Annals of Agricultural Research
 Annals of Agricultural Science (Cairo)
 Annals of Applied Biology
 Annals of Biology (Ludhiana)
 Annals of Botany
 Annals of Forestry
 Annals of Plant Protection Sciences
 Annals of the Entomological Society of America
 Annals of the New York Academy of Sciences
 Annals of the Phytopathological Society of Japan
 Annals of Tropical Medicine and Parasitology
 Annual Report - International Institute of Biological Control
 Annual Report of the Society of Plant Protection of North Japan
 Annual Review of Entomology
 Annual Review of Phytopathology
 Antenna (London)
 Anzeiger für Schädlingskunde
 Anzeiger für Schädlingskunde, Pflanzenschutz, Umweltschutz
 Applied and Environmental Microbiology
 Applied Entomology and Zoology
 Applied Vegetation Science
 Aquatic Sciences
 Arab Journal of Plant Protection
 Arab Universities Journal of Agricultural Sciences
 Arboriculture Fruitière
 Archives of Insect Biochemistry and Physiology
 Archives of Phytopathology and Plant Protection
 Archives of Virology
 Ardea
 Arid Soil Research and Rehabilitation
 ASCOLFI Informa
 Aspects of Applied Biology
 Assiut Journal of Agricultural Sciences
 Assiut Veterinary Medical Journal
 Australasian Plant Pathology
 Australian Cottongrower
 Australian Entomologist
 Australian Journal of Agricultural Research
 Australian Journal of Earth Sciences
 Australian Journal of Ecology
 Australian Journal of Entomology
 Australian Journal of Experimental Agriculture
 Australian Journal of Zoology
 Avance Agroindustrial
 Bacterial Wilt Newsletter
 Bangladesh Journal of Botany
 Behaviour
 BGF Bulletin
 BioControl
 Biocontrol News and Information
 Biocontrol Science and Technology
 Biodiversity and Conservation
 Biológia (Bratislava)
 Biological Agriculture & Horticulture
 Biological Control
 Biological Journal of the Linnean Society
 Biologist (London)
 Biology Bulletin of the Russian Academy of Sciences
 Bioprocess Engineering
 Bioresource Technology
 Biotechnology and Applied Biochemistry
 Biotechnology Letters
 Biotechnology Techniques
 Biotechnologiya
 BIOTROPICA
 Boletín de Entomología Venezolana, Serie Monografías
 Boletín de la Dirección de Malariología y Saneamiento Ambiental
 Boletín de Sanidad Vegetal, Plagas
 Boletín Micológico
 Boletín PROMECAFE
 Bollettino del Laboratorio di Entomologia Agraria "Filippo Silvestri"
 Bollettino di Zoologia Agraria e di Bachicoltura
 Brazilian Archives of Biology and Technology
 Brazilian Journal of Medical and Biological Research
 BSES Bulletin
 Bulgarian Journal of Agricultural Science
 Bulletin & Annales de la Société Royale Belge d'Entomologie
 Bulletin - Entomological Society of Canada
 Bulletin de la Société Zoologique de France
 Bulletin OEPP
 Bulletin of Entomological Research
 Bulletin of Faculty of Agriculture, University of Cairo
 Bulletin of the Akita Fruit-Tree Experiment Station
 Bulletin of the British Museum (Natural History), Entomology Series
 Bulletin of the Institute for Comprehensive Agricultural Sciences, Kinki University
 Bulletin of the Nara Agricultural Experiment Station
 Bulletin of the Rubber Research Institute of Sri Lanka
 Bulletin OILB/SROP
 Cahiers Agricultures
 California Agriculture
 Canadian Entomologist

- Canadian Journal of Botany
 Canadian Journal of Microbiology
 Canadian Journal of Plant Pathology
 Canadian Journal of Zoology
 Cattle Practice
 CEIBA
 Chemosphere
 China Cottons
 China Environmental Science
 China Fruits
 China Vegetables
 Chinese Journal of Applied Ecology
 Chinese Journal of Biological Control
 Chinese Journal of Entomology
 Ciência e Agrotecnologia
 Ciência Rural
 Circular Técnica - Centro Nacional de Pesquisa de Milho e Sorgo
 Coleopterists Bulletin
 Colture Protette
 Commercial Grower
 Comparative Biochemistry and Physiology. B, Biochemistry & Molecular Biology
 Comptes Rendus de l'Académie des Sciences. Série III, Sciences de la Vie
 Cooperative Sugar
 Critical Reviews in Plant Sciences
 Crop Protection
 Crop Research (Hisar)
 CRRN, Chinese Rice Research Newsletter
 Current Genetics
 Current Microbiology
 Current Research - University of Agricultural Sciences (Bangalore)
 Current Science
 Cytologia
 DIF Rapport, Markbrug
 Documentos - Centro Nacional de Pesquisa do Algodão
 Ecología (Madrid)
 Ecological Applications
 Ecological Entomology
 Ecological Modelling
 Ecology
 Écoscience
 Egyptian Journal of Agricultural Research
 Elaeis
 Entomologia Experimentalis et Applicata
 Entomologia Generalis
 Entomologia Sinica
 Entomología y Vectores
 Entomological Science
 Entomologist's Monthly Magazine
 Entomólogo
 Entomon
 Entomotaxonomia
 Environment and Ecology
 Environmental Entomology
 Environmental Management
 Ethology
 Ethology, Ecology & Evolution
 European Journal of Entomology
 European Journal of Forest Pathology
 European Journal of Plant Pathology
 European Mosquito Bulletin
 Evolution
 Evolutionary Ecology
 Experimental & Applied Acarology
 Fagopyrum
 FAO Animal Production and Health Paper
 Farm & Food
 Farmers' Newsletter, Large Area
 FEMS Microbiology Ecology
 FEMS Microbiology Letters
 Fitopatología
 Fitopatologia Brasileira
 Fitopatologia Colombiana
 Fitopatologia Venezolana
 Florida Entomologist
 Folia Entomológica Mexicana
 Folia Forestalia Polonica. Seria A, Leśnictwo
 Folia Microbiologica
 Förderungsdienst
 Forest Ecology and Management
 Forest Research
 Freshwater Biology
 FRI Journal of Forest Science (Seoul)
 Frontiers of Plant Science
 Fruit Belge
 Fruits (Paris)
 Fruitteelt (Den Haag)
 Fundamental and Applied Nematology
 Fungal Genetics and Biology
 Gartenbauwissenschaft
 General and Applied Entomology
 General Technical Report - North Central Research Station, USDA Forest Service
 Genetics and Molecular Biology
 Genetika (Moskva)
 Gesunde Pflanzen
 Gewasbescherming
 Global Journal of Pure and Applied Sciences
 Great Basin Naturalist
 Great Lakes Entomologist
 GrowerTalks
 Guangdong Agricultural Sciences
 Gujarat Agricultural University Research Journal
 Helminthologia
 Heredity
 HGCA Project Report
 Highlights of Agricultural Research - Alabama Agricultural Experiment Station
 Horticultura Brasileira
 HortScience
 IDESIA
 Indian Coconut Journal (Cochin)
 Indian Forester
 Indian Journal of Agricultural Research
 Indian Journal of Agricultural Sciences
 Indian Journal of Environment and Toxicology
 Indian Journal of Experimental Biology
 Indian Journal of Forestry
 Indian Journal of Hill Farming
 Indian Journal of Medical Research
 Indian Journal of Microbiology
 Indian Journal of Sericulture
 Indian Phytopathology
 Indian Textile Journal
 Information Report - Laurentian Forestry Centre, Quebec Region, Canadian Forest Service
 Informatore Agrario
 Informatore Fitopatologico
 Informe Agropecuario (Belo Horizonte)
 Infos (Paris)
 Insect Biochemistry and Molecular Biology
 Insect Environment
 Insect Molecular Biology
 Insect Science and its Application
 Insecta Matsumurana
 Integrated Pest Management Reviews
 International Arachis Newsletter
 International Biodeterioration & Biodegradation
 International Chickpea and Pigeonpea Newsletter
 International Journal for Parasitology
 International Journal of Acarology
 International Journal of Food Microbiology
 International Journal of Insect Morphology & Embryology
 International Journal of Nematology
 International Journal of Pest Management
 International Journal of Systematic Bacteriology
 International Journal of Tropical Agriculture
 International Pest Control
 Invertebrate Taxonomy
 Investigación Agraria, Producción y Protección Vegetales
 Investigación Agrícola (Santiago)
 IPM Practitioner
 Iranian Journal of Agricultural Sciences
 Iranian Journal of Plant Pathology
 Israel Journal of Entomology
 Israel Journal of Plant Sciences
 Japanese Journal of Applied Entomology and Zoology
 Japanese Journal of Crop Science
 Japanese Journal of Entomology (New Series)
 Japanese Journal of Nematology
 JARQ, Japan Agricultural Research Quarterly
 Jiangsu Journal of Agricultural Sciences
 JIRCAS International Symposium Series
 Journal of Advanced Zoology
 Journal of Agricultural and Urban Entomology
 Journal of Agricultural Entomology
 Journal of Agricultural Research of China
 Journal of Animal Ecology
 Journal of Applied Ecology
 Journal of Applied Entomology
 Journal of Applied Microbiology
 Journal of Aquatic Plant Management
 Journal of Arachnology
 Journal of Arboriculture
 Journal of Asia-Pacific Entomology
 Journal of Basic Microbiology
 Journal of Beijing Forestry University
 Journal of Biological Control
 Journal of Biosciences
 Journal of Chemical Ecology

- Journal of Comparative Physiology. A, Sensory, Neural, and Behavioral Physiology
 Journal of Ecobiology
 Journal of Economic Entomology
 Journal of Ecotoxicology & Environmental Monitoring
 Journal of Entomological Research
 Journal of Entomological Science
 Journal of Environmental Management
 Journal of Evolutionary Biology
 Journal of Experimental Biology
 Journal of Food Protection
 Journal of Food Science and Technology (Mysore)
 Journal of Fruit and Ornamental Plant Research
 Journal of Fujian Academy of Agricultural Sciences
 Journal of Fujian Agricultural University
 Journal of General Virology
 Journal of Helminthology
 Journal of Henan Agricultural Sciences
 Journal of Hill Research
 Journal of Horticultural Science and Biotechnology
 Journal of Hunan Agricultural University
 Journal of Hymenoptera Research
 Journal of Industrial Microbiology & Biotechnology
 Journal of Insect Behavior
 Journal of Insect Physiology
 Journal of Interacademia
 Journal of Invertebrate Pathology
 Journal of Jilin Agricultural University
 Journal of Medical Entomology
 Journal of Mycology and Plant Pathology
 Journal of Mycopathological Research
 Journal of Nanjing Agricultural University
 Journal of Nanjing Forestry University
 Journal of Natural History
 Journal of Nematology
 Journal of Northeast Forestry University
 Journal of Northwest Forestry College
 Journal of Nuclear Agriculture and Biology
 Journal of Parasitology
 Journal of Pesticide Reform
 Journal of Pesticide Science
 Journal of Phytopathology
 Journal of Plant Protection in the Tropics
 Journal of Plantation Crops
 Journal of Research on the Lepidoptera
 Journal of Rubber Research
 Journal of Shandong Agricultural University
 Journal of Society of High Technology in Agriculture
 Journal of Soils and Crops
 Journal of South China Agricultural University
 Journal of South Pacific Agriculture
 Journal of Spices and Aromatic Crops
 Journal of Stored Products Research
 Journal of the Agricultural Science Society of North East India
 Journal of the American Mosquito Control Association
 Journal of the Chinese Agricultural Chemical Society
 Journal of the Entomological Society of British Columbia
 Journal of the Faculty of Agriculture, Kyushu University
 Journal of the Helminthological Society of Washington
 Journal of the Japanese Forestry Society
 Journal of the Kansas Entomological Society
 Journal of the Korean Society for Horticultural Science
 Journal of the National Science Council of Sri Lanka
 Journal of the New York Entomological Society
 Journal of the Science of Food and Agriculture
 Journal of Tree Fruit Production
 Journal of Tropical Forest Science
 Journal of Turfgrass Science
 Journal of Vector Ecology
 Journal of Virology
 Journal of Weed Science and Technology
 Journal of Wildlife Diseases
 Journal of Wine Research
 Journal of Zhejiang Agricultural University
 Journal of Zhejiang Forestry Science and Technology
 Journal of Zoology
 Jurnal Ilmu Ternak dan Veteriner
 Karnataka Journal of Agricultural Sciences
 Kartoffel' i Ovoshchi
 KFRl Research Report
 Korean Journal of Applied Entomology
 Korean Journal of Horticultural Science & Technology
 Korean Journal of Plant Pathology
 Kungl. Skogs- och Lantbruksakademiens Tidskrift
 Landscape Ecology
 Laranja
 Lesnictví - Forestry
 Letters in Applied Microbiology
 Louisiana Agriculture
 Madras Agricultural Journal
 Magazyn Weterynaryjny
 Manejo Integrado de Plagas
 Mededelingen - Faculteit Landbouwkundige en Toegepaste Biologische Wetenschappen, Universiteit Gent
 Medical and Veterinary Entomology
 Medical Entomology and Zoology
 Medical Journal Armed Forces India
 Memoirs on Entomology, International
 Memórias do Instituto Oswaldo Cruz
 Metamorphosis
 Metodiky pro Zemědělskou Praxi
 Microbiological Research
 Microbiology (Reading)
 Mikologiya i Fitopatologiya
 Mikrobiologichnii Zhurnal
 Mitteilungen der Schweizerischen Entomologischen Gesellschaft
 Molecular and General Genetics
 Molecular Phylogenetics and Evolution
 Molecular Plant-Microbe Interactions
 Mosquito Borne Diseases Bulletin
 Mushroom Journal
 Mycologia
 Mycological Research
 Mycologist
 Mycopathologia
 Mycoscience
 Mycosystema
 Mycotaxon
 Nachrichtenblatt des Deutschen Pflanzenschutzdienstes
 Natural Enemies of Insects
 Neltropika Bulletin
 Nematologia Brasileira
 Nematologia Mediterranea
 Nematologica
 Nematology
 Nematropica
 Netherlands Journal of Zoology
 New England Fruit Meetings
 New Forests
 New Zealand Entomologist
 New Zealand Journal of Crop and Horticultural Science
 New Zealand Journal of Ecology
 New Zealand Journal of Zoology
 Ningxia Journal of Agricultural and Forestry Science and Technology
 Nippon Kingakukai Kaiho
 Nippon Nogekikagaku Kaishi
 Nouvelle Revue d'Entomologie
 Nova Hedwigia
 Növényvédelem
 Obst- und Weinbau
 Ochrona Roślin
 Oecologia
 Oikos
 Oriental Insects
 Oryza
 Pakistan Journal of Agricultural Sciences
 Pakistan Journal of Botany
 Pakistan Journal of Nematology
 Pakistan Journal of Phytopathology
 Pan-Pacific Entomologist
 Parasitica
 Parasitology
 Parasitology Research
 Parazitologiya
 Partners in Research for Development
 PAV-Bulletin Akkerbouw
 Pesquisa Agropecuária Brasileira
 Pesquisa em Andamento - Centro Nacional de Pesquisa do Algodão
 Pesquisa em Andamento - Embrapa Algodão
 Pest Management in Horticultural Ecosystems
 Pesticide Outlook
 Pesticide Research Journal
 Pesticide Science
 Petria
 Pflanzenschutz-Nachrichten Bayer
 Philippine Entomologist
 Physiological and Molecular Plant Pathology
 Physiological Entomology
 Phytoma
 Phytom (Buenos Aires)
 Phytoparasitica
 Phytopathologia Polonica
 Phytopathology
 Phytophaga (Palermo)
 Plant and Soil
 Plant Cell, Tissue and Organ Culture
 Plant Disease
 Plant Disease Research
 Plant Pathology
 Plant Pathology Bulletin
 Plant Protection
 Plant Protection Bulletin (Taipei)

- Plant Protection News
 Plant Protection Quarterly
 Plant Protection Science
 PLITS
 Pochvoznaniye, Agrokhimiya y Ekologiya
 Poljoprivreda
 Polskie Pismo Entomologiczne
 Postharvest Biology and Technology
 Postharvest News and Information
 Prace Instytutu Badawczego Leśnictwa
 Praxis Veterinaria (Milano)
 Proceedings of the Association for Plant Protection of Kyushu
 Proceedings of the Entomological Society of Washington
 Proceedings of the Kansai Plant Protection Society
 Proceedings of the Kanto-Tosan Plant Protection Society
 Proceedings of the National Academy of Sciences India. Section B, Biological Sciences
 Proceedings of the National Academy of Sciences of the United States of America
 Proceedings of the Section Experimental and Applied Entomology of the Netherlands Entomological Society
 Proceedings of the Western Society of Weed Science
 Proeftuinnieuws
 Progress in Plant Protection
 Quarterly Review of Biology
 Rachis
 Rasen-Turf-Gazon
 Rasteniev'dni Nauki
 RDA Journal of Crop Protection
 Recent Research Developments in Entomology
 Recent Research Developments in Microbiology
 Redia
 Report - Research Institute for Agrobiology and Soil Fertility
 Report of the Taiwan Sugar Research Institute
 Reports from the Kevo Subarctic Research Station
 Research Bulletin of the Faculty of Agriculture, Gifu University
 Research Bulletin of the Hokkaido National Agricultural Experiment Station
 Research Series - Arkansas Agricultural Experiment Station
 Researches on Population Ecology
 Revista Argentina de Microbiología
 Revista Biología (Habana)
 Revista Brasileira de Biologia
 Revista Brasileira de Entomologia
 Revista Brasileira de Parasitologia Veterinária
 Revista Brasileira de Zoologia
 Revista Chilena de Entomología
 Revista Colombiana de Entomología
 Revista Cubana de Medicina Tropical
 Revista de Agricultura (Piracicaba)
 Revista de la Facultad de Agronomía (Universidad de Buenos Aires)
 Revista de la Facultad de Agronomía, Universidad del Zulia
 Revista de la Sociedad Entomológica Argentina
 Revista de Microbiología
 Revista de Oleaginosas e Fibras
 Revista de Protección Vegetal
 Revista do Instituto de Medicina Tropical de São Paulo
 Revista Iberoamericana de Micología
 Revista ICIDCA Sobre los Derivados de la Caña de Azúcar
 Revista Panamericana de Salud Pública/Pan American Journal of Public Health
 Revista Pecuaría de Nicaragua
 Revue Suisse de Viticulture, d'Arboriculture et d'Horticulture
 RIRDC Publication - Rural Industries Research and Development Corporation (Kingston)
 RIS Biotechnology and Development Review
 Rivista di Avicoltura
 Rivista di Suinicoltura
 Roczniki Akademii Rolniczej w Poznaniu, Ogrodnictwo
 Roczniki Państwowego Zakładu Higieny
 Russian Journal of Ecology
 Russian Journal of Nematology
 Sarhad Journal of Agriculture
 Scandinavian Journal of Forest Research
 Science (Washington)
 Scientia Agricola
 Scientia Silvae Sinicae
 Scientific Reports of the Kyoto Prefectural University, Human Environment and Agriculture
 Seed and Plant
 Seed Technology
 Shashpa
 Soil Biology & Biochemistry
 Soil Microorganisms
 South African Journal of Botany
 South China Fruits
 Southwestern Entomologist
 Soybean Science
 Special Report - Arkansas Agricultural Experiment Station
 Sting (Wageningen)
 Studies on Neotropical Fauna and Environment
 Sugar Cane
 Summa Phytopathologica
 Svensk Veterinärtidning
 Sydowia
 Sylwan
 Symbiosis (Rehovot)
 Systematic and Applied Acarology
 Systematic and Applied Microbiology
 Taiwan Journal of Forest Science
 Taiwan Sugar
 TASPO Gartenbaumagazin
 Tea
 Technology Transfer Note - Pacific Forestry Centre, Canadian Forest Service
 Tests of Agrochemicals and Cultivars
 Theoretical Population Biology
 Tobacco Research
 Toxicological Sciences
 Transactions of the American Entomological Society
 Transactions of the Royal Society of South Australia Incorporated
 Trends in Ecology & Evolution
 Tri-ology Technical Report
 Tropical Agricultural Research and Extension
 Tropical Science
 Tropicultura
 Turkish Journal of Agriculture & Forestry
 Turkish Journal of Zoology
 Türkiye Entomoloji Dergisi
 Türkiye Herboloji Dergisi
 Two and a Bud
 Uspekhi Sovremennoy Biologii
 Växtskyddsnotiser
 Vestnik Zoologii
 Veterinary Parasitology
 Vitis
 Weed Research (Oxford)
 Weed Science
 Weed Technology
 Weta
 Wiadomości Entomologiczne
 World Forestry Research
 World Journal of Microbiology & Biotechnology
 Wuyi Science Journal
 Zahradnictví
 Zashchita i Karantin Rasteniy
 Zaštita Bilja
 Zeitschrift für Pflanzenkrankheiten und Pflanzenschutz
 Zhongguo Meijieshengwuxue ji Kongzhi Zazhi = Chinese Journal of Vector Biology and Control
 Zoologica Scripta
 Zoological Research
 Zoomorphology

Notes For Authors

Biocontrol News and Information is a news, reviews, commentary and abstract journal designed to keep its international readership up to date with current developments in biological control. The journal occupies a niche between primary research journals and conventional review journals and is not normally a vehicle for the publication of original research data or methods.

Text. Papers should be typed with double line spacing and ample margins. Draft quality print from a word-processor is not acceptable. Standard abbreviations (e.g. Fig. and Figs.) and metric units must be used. Use British rather than American spellings. Use 'z' rather than 's' spellings in word with 'ize'.

Disks. Please submit a 3½" computer disk containing the manuscript. Please: (1) label the disk clearly with author's name, title of journal and short title of the article; (2) specify the word processing software (including version) used (e.g. WordPerfect 6.0); (3) specify the computer used; (4) include both the original file and an ASCII file on the disk; (5) keep a backup disk for reference and safety.

Email. Manuscripts without artwork may be submitted in ASCII format by email. Please indicate any special characters that may be mistranslated during transmission.

Abstract. Each paper needs an informative abstract describing the contents of the review, and summarizing any conclusions, in one paragraph of 250 words or less. The abstract should be complete in itself and intelligible without reference to text or figures. The abstract will be made available electronically through the CAB ABSTRACTS database.

Headings. Four hierarchical levels of headings are permissible. Please mark levels <1>, <2>, <3> and <4>.

Tables. Reduce to the simplest form with only essential data, and place at the end of the article.

Illustrations. Please send originals, with captions typed on a separate sheet. Please inform us if you wish to have any material returned.

Line drawings should be sharp and clear, black ink on white paper to about 1.5 times the intended final size. The lettering and lines should be of sufficient thickness and quality to stand reduction. Computer-generated figures and graphs should not contain grey tints or complicated hatching. Please supply electronic files wherever used.

Black and white half-tone photographs should be prints of good quality at the intended final size, with any required lettering inserted by the author. Please let the Editor know if you wish to include photographs.

References. These are based on the name and year system, using full journal titles in the following styles:

Gross, N.R.; Lewis, W.J.; Nordlund, D.A. (1981) *Trichogramma pretiosum*: effect of prerelease parasitization experience on retention in release and efficiency. *Environmental Entomology* **10**, 35-39.

King, E.G. (1993) Augmentation of parasites and predators for suppression of arthropod pests. In: Lumsden, R.D.; Vaughn, J.L. (eds) *Pest management: biologically based techniques. Proceedings of the Beltsville Symposium 28, Maryland, 2-6 May 1993*. Washington, DC; American Chemical Society, pp. 90-100.

Bigler, F. (1994) Quality control in *Trichogramma* production. In: Wajnberg, E.; Hassan, S.A. (eds) *Biological control with egg parasitoids*. Wallingford, UK; CAB International, pp. 93-111.

Citation of authors in the text should appear in the form: Polaszek (1996) or (Polaszek, 1996). Multiple citations should be in chronological order: (Roberts and Kumar, 1994; Blackman *et al.*, 1995).

Please check that all authors in the text appear in the reference list, as omissions frequently delay publication. Also please ensure multiple citations of a publication in a reference list are consistent.

Offprints. 25 copies are provided free to the author (or major author) of each paper. Additional copies may be purchased. The number required must be specified and ordered on acceptance, when prices will be quoted. Please confirm offprint delivery address.

Copyright. We will supply a copyright form which must be completed and returned. Papers are accepted on the understanding that the work has been submitted exclusively to the journal and has not been previously published elsewhere unless otherwise stated.

Manuscripts. One copy of the manuscript and artwork and a computer disk should be submitted to:

The Editor, *Biocontrol News and Information*,
CABI Bioscience, Silwood Park, Buckhurst Road,
Ascot, Berks SL5 7TA, UK
Fax: + 44 (0) 1344 875007
Email: BNI@cabi.org

PRODUCTS FROM CABI PUBLISHING

CABI Publishing is a Division of CAB International (CABI), a not-for-profit organization involved in the dissemination, application and generation of scientific knowledge in the areas of agriculture, horticulture, forestry, the applied life sciences, including human nutrition and health, and the management of natural resources.

The products are predominantly outputs from CABI's main databases, CAB ABSTRACTS and CAB HEALTH, which contain over 3.5 million bibliographic records of the world's scientific and technical literature published since 1973.

CAB ABSTRACTS is the world's leading bibliographic database covering all aspects of agriculture, horticulture, forestry, veterinary science, and soil and water science, as well as leisure, recreation and tourism, and human nutrition.

CAB HEALTH covers parasitic, tropical and infectious diseases of man, community and public health, human nutrition, and medicinal and poisonous plants.

FROM THE DATABASES:

ABSTRACT JOURNALS

Printed journals covering broad disciplines as well as specialist interests. Some journals also contain news and other information including review articles. The abstracts included in these journals are also available on floppy disk.

CD-ROM

CAB ABSTRACTS on compact disc, the CABCD - available back to 1973.

CAB HEALTH - available back to 1973.

CAB SPECTRUM - subject-specific discs containing over 25 years of information on each of the major broad disciplines.

CAB COLLECTION - specialist subject discs containing around 25 years of information in a unique, searchable, bibliographic archive.

MAGNETIC TAPES

Organizations with access to mini or mainframe computers may lease all or part of the CAB ABSTRACTS or CAB HEALTH databases.

ANNOTATED BIBLIOGRAPHIES

Printed compilations on specific topics.

LITERATURE SEARCH SERVICE

Literature Search services are available for those who do not have direct access to online systems.

ALSO:

PRIMARY JOURNALS

Bulletin of Entomological Research, Seed Science Research, Journal of Helminthology, Soil Use and Management, British Journal of Nutrition, Proceedings of The Nutrition Society, Nutrition Research Reviews and Public Health Nutrition.

SERIAL PUBLICATIONS

Index of Current Research on Pigs, Distribution Maps of Plant Pests, Distribution Maps of Plant Diseases, Bibliography of Systematic Mycology, Descriptions of Fungi & Bacteria and Index of Fungi.

BOOKS AND REFERENCE WORKS

CABI Publishing has an active book publishing programme and publishes over 60 new titles every year, some of which are available in electronic form. Please contact the Commissioning Editor.

COMPENDIA

CD-ROM titles providing simple, instant access to detailed, illustrated data in the Crop Protection and Forestry areas with links to bibliographic databases, diagnostic keys and information on the Internet.

SCIENTIFIC SOFTWARE AND REFERENCE TOOLS

Interactive Taxonomic Identification Keys and authority files to arthropods, fungi and nematodes.

CABWebs

WWW sites allowing access to CABI Abstract and Primary Journals and other useful information in relevant subject areas. The CABWebs available are PEST CABWeb - for crop protection, TREE CABWeb - for forestry, VET CABWeb - for veterinary science and animal health information and, NEW for 1999, NUTRITION CABWeb - for both human and animal nutrition information, HORT CABWeb - for information on all areas of horticulture and seed science, and AgBiotechNet - for agricultural biotechnology information. For access to any of the CABWebs, visit the CABWeb homepage at <http://www.cabweb.org>.

CABI on the WWW

You can find out more about CABI publications and services at <http://www.cabi.org>

For further information on any of the above products contact:

CABI Publishing, CAB International, Wallingford, Oxon OX10 8DE, UK

Tel: + 44 (0) 1491 832111 Fax: + 44 (0) 1491 829292 Email: publishing@cabi.org

CABI Publishing, CAB International, 10 East 40th Street, Suite 3203, New York, NY 10016, USA

Tel: +1 (212) 481 7018 Toll-free: 800 528 4841 Fax: +1 (212) 686 7993 Email: cabi-nao@cabi.org

CAB International, South East Asia Regional Centre, Malaysian Agricultural Research and Development Institute (MARDI), PO Box 210, 43409 UPM Serdang, Malaysia

Tel: +60 (0)3 943 2921 Fax: +60 (0)3 943 6400 Email: searc@cabi.org

CAB International, Caribbean Regional Centre, Gordon Street, Curepe, Trinidad & Tobago, WI

Tel: +1 (868) 645 7628 Fax: +1 (868) 663 2859 Email: crc@cabi.org

CAB International, Africa Regional Centre, ICRAF Complex, PO Box 633, Village Market, Nairobi, Kenya

Tel: +254 (2) 521450 Fax: +254 (2) 521001 Email: arc@cabi.org